



Advanced training in discovery of antimicrobial agents to address AMR



CSIR-CDRI

CSIR-CDRI is a unique R & D Institution in the country with state of the art infrastructure for new drug discovery and development from "Concept to Commercialization". It is poised to become a global leader through cutting edge science & technology. For New India, the Institute is re-orienting itself into a multidisciplinary nodal center for development of drug for the unmet medical needs as well as the expectation of the industry. While focusing on the discovery & development of drugs, the institute is aligned & contributing towards the national missions programs such as Make in India, Swatch Bharat, Skill India, Digital India, Start-up India, Accessible India and Sashakt Bharat.

Antimicrobial resistance (AMR) is a leading global health threat associated with high morbidity and mortality, prolonged hospital admission, and increased health-care costs. The global emergence of AMR underscores the unmet clinical need for action on AMR, which includes antibiotic stewardship, strengthening surveillance systems, preventing AMR-related infections and transmission, and developing new technologies and alternative antimicrobial therapies. Anti-microbial drug discovery is one of the core competencies of CSIR-CDRI, which is also the ICMR-Center for Advanced Research on AMR. CSIR-CDRI has well established anti-bacterial and anti-fungal drug discovery programs. The Skill Development Program of the Institute has designed a capsule skill development program, which offers hands-on training on early stage anti-microbial drug discovery. Early stage discovery identifies several different potential hits, but not all of them will have the desirable qualities. Hence, these initial hits are further evaluated for their potential and drawbacks, before selecting a single hit for expansion and development into a lead compound. This program will generate skilled human resources suitable for employment in industry/laboratory involved in antimicrobial drug discovery.

CSIR-CDRI invites applications for the course as per the details given below:

Title of the Course	: Advanced training in discovery of antimicrobial agents to address AMR
Duration	: 8th-18th September 2026
No. of Seats	: 15
Educational Qualification	: M.Sc. (Microbiology/Biotechnology/Life Sciences) Degree (completed)
Venue of the course	: CSIR-CDRI, Lucknow
Course fee	: None
Accommodation	: self-arranged
Last Date for submission of applications	: 25.08.2026
Course Coordinator	: Dr. Manju Y K (E-mail: manju.cdri@csir.res.in)

TRAINING CURRICULUM

The course consists of theoretical and hands on experience on following

- Determination of MIC and MBC against priority bacterial and fungal pathogens
- Time-kill kinetics assay
- Cytotoxicity testing
- Haemolytic activity testing

TRAINING FOR WHOM

The course work will be beneficial for persons having background in Microbiology to understand the principles and methodology involved in early stage discovery of new antimicrobial agents to tackle AMR.

SALIENT FEATURES OF THE TRAINING

- Interactive lectures on current anti-AMR strategies
- Batch wise practical training
- Demonstrations of state-of-the-art equipment

EVALUATION OF TRAINEES

Evaluation will consist of the following components

- Theory Courses (50 Marks)
- Practical Courses (50 Marks)

CERTIFICATION

The certificate will be issued to the successful candidates for the course

IMPORTANT DATES

Receiving of application by E-mail (last date): **25.08.2026 (5:30 PM)**

Intimation to selected candidates: **27.08.2026**

Course Start: **08/09/2026**

Kindly send Application by E-mail only to manju.cdri@csir.res.in

Contact:
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