

Training Programme in Engineering Mammalian Cells with CRISPR Tools 26th March - 6th April 2019

CCMB proposes a training course in genome engineering of mammalian cells using gene-editing technology-CRISPRs to generate human resources that are employment-ready for the requirements of industries and academia. The program targets students and employees from government labs/ Institutes, Industries, Hospitals, Pathology Laboratories, Universities with a view to train them to be able to design and construct CRISPR constructs and generate knock-out and knock-in mammalian cell lines.

Duration	:	2 weeks
No. of seats	:	8-10 No.s
Education Qualifications	:	B.Tech., M.Sc, B.V.Sc., MBBS (minimum)
Age group	:	21-45 years (relaxation for SC/ST/OBC as per GOI rules)
Date of Commencement	:	26 th March 2019
Venue of the Course	:	iHub; Annexe-II, CSIR-CCMB
Course Fee	:	Rs. 25,000/- (self/sponsored)
Residential/non-residential	:	Residential (accommodation provided)

Training Curriculum for Course:

- Concepts of genome editing and engineering
- Design of sgRNA, donor oligos and donor-targeting vectors
- Cloning of sgRNAs, preparations of CRISPR constructs for transfections
- Cell culture, transfections and selection of CRISPR transfected cells
- Genotyping to identify indel knockout cells
- Co-transfection of CRISPR and donor construct for generating knock-in
- Genotyping and confirmation of CRISPR based knock-in cells

Salient Features of the Training:

- 20% theory and 80% practical sessions are as per the course curriculum.
- Hand-out information on teaching modules
- Tutorials (personal attention)
- Lectures are assisted with multimedia aids
- Central facility visits within the laboratory
- Evaluation by assignments/ exams
- A certificate will be issued to the successful candidates