



Skill Development Program on “Rice Re-Imagined: Hands on Genome Editing Masterclass”



06th – 10th July 2026

CSIR-Centre for Cellular and Molecular Biology shall conduct a hands-on training workshop for five days on “**Rice Re-Imagined: Hands on Genome Editing Masterclass**” (RICE-1) targeted to faculty members/researchers from universities/institutes/industries and interested individuals in the field of Life Sciences & allied areas. This training is intended to train about the basic techniques of genome editing tool and tissue culture for research in various experiments and supplemented with informative lectures, hands-on training, instrument set-up and data analysis.

No. of seats	:	15-20
Minimum Qualification	:	Masters in any branch of Life Science/Allied areas
Dates	:	6 th – 10 th July 2026
Mode of the Course	:	In-house training at CCMB
Mode of selection	:	Application form & Statement of Purpose
Course Fee	:	Rs. 18,000/- (including GST & Accommodation)
Apply using the link	:	http://recruitment.ccmb.res.in/training_programs/sdp/
Course Code	:	RICE-1

Training Curriculum for Course:

- Foundation and theory of genome editing
- Bioinformatic tools for genome editing
- CRISPR Cas Mechanism
- Cloning of CRISPR constructs
- Plant transformation methods
- Rice tissue culture
- Molecular analysis and screening of edited lines
- Regulatory, ethical and social aspects

Salient Features of the Training:

- ❖ **Go Beyond Theory:** Move from CRISPR-Cas9 mechanics directly into the wet lab to clone constructs and sequence your results.
- ❖ **Precision Design:** Master professional bioinformatics tools like SnapGene and CHOPCHOP to engineer high-specificity gRNAs.
- ❖ **Rice Transformation Mastery:** Gain rare, hands-on experience in *Agrobacterium*-mediated transformation and rice callus regeneration.
- ❖ **Design-Your-Target:** Design your own target gene and build a complete editing strategy from scratch.
- ❖ **Expert Molecular Analysis:** Learn to decode mutation profiles and interpret deep sequencing data.
- ❖ **Regulatory & Ethics Insight:** Navigate the complex landscape of Indian biosafety regulations, IP issues, and trait improvement.
- ❖ **Certified Networking:** Earn your certificate and build lasting collaborations with peers and mentors from leading institutions.

Training Coordinator:
Dr. Hitendra Kumar Patel
Scientist-F
Crop Improvement Lab
CSIR-CCMB,
Hyderabad.

Program Coordinator:
Dr. Archana Bharadwaj Siva
Scientist-G
Nodal Scientist-Skill Development Program
CSIR-CCMB, Hyderabad.
sdp.ccmb@csir.res.in



Scan to Apply