



ACCELERATE  
योग्यता



भारत 2023 INDIA

## HIGH END WORKSHOP (KARYASHALA)

ON

# Unlocking Plant Genetic Potential: Training Program on Cutting-edge Genome Editing Tools

Funded By

SCIENCE AND ENGINEERING RESEARCH BOARD

ACCELERATE VIGYAN SCHEME



15 March -21 March, 2024



**Registration Link:** <https://forms.gle/Aqcp6FUpxTKYbodz5>

**Last Date for registration:** 14 March 2024

### About the Workshop

Karyashala, a one week Hands-On-Training workshop will be conducted for PhD Scholars/PG Students/Researchers from Universities/Institutes/Industries working in the field of Life Sciences and allied areas. This workshop aims to provide foundational knowledge of CRISPR/Cas Technology, including the basics of designing and cloning gRNA into an Intermediate Vector, validating CRISPR/Cas constructs, and mobilizing them into *Agrobacterium*. It will also cover *Agrobacterium*-mediated Plant Transformation and methods for Mutant Characterization. The workshop will be enriched with relevant focused lectures on fundamental topics essential for understanding CRISPR/Cas technology.

### Practical Hands-on training

- Designing and Cloning of gRNAs
- Clone Confirmation, Plasmid Isolation, RE Digestion
- Ligation into Destination Vector and Transformation
- Confirmation of CRISPR/Cas Construct and Mobilization into *Agrobacterium*.
- CRISPR Cas9 Mediated Gene Knockout

### Organized By

Department of Biotechnology  
School of Interdisciplinary and Applied Sciences  
Central University of Haryana

### Eligibility & Selection Process

**Minimum Qualification:** Candidate enrolled in a M.Sc. or PhD program.

**Mode of Selection:** Application form and Statement of purpose

**Workshop Duration:** One Week

**Number of Seats:** 25 (Accommodation will be provided on request)

### Learn from the experts in the field:



Dr. N. K. Singh,  
ICAR-NIPB



Dr. Kashmir Singh,  
Panjab University



Dr. Prashant Vikram,  
SGT University



Dr. Hasthi Ram,  
NIPGR



Dr. Prashant Kwar,  
ICAR-DFR



Dr. Altaf Nadaf,  
SPPU,Pune



Dr. Heena Dhar,  
RIMT



Dr. Santosh Gupta,  
NIPGR



Dr. Ved Prakash,  
KSU, USA



Dr. Mukul Joshi,  
BITS, Pilani



Dr. Durgesh Tripathi,  
Amity University



Dr. Gunavant Patil,  
TTU, USA



Dr. Sanskriti Vats,  
UC, Denmark



Dr. Surbhi  
Kumawat, KU,USA



Dr. Gaurav Raturi,  
TTU, USA



Dr. Yaiphabi  
Kumam, UF, USA



Dr. Rahul Shelake,  
GNU, South Korea

### About the Organizers

The Department of Biotechnology at the Central University of Haryana, established in 2015 under the School of Interdisciplinary and Applied Sciences, is a dynamic and emerging department. It is committed to delivering high-quality education and skills development in the field of biotechnology, focusing on the latest areas of research.

#### Chief Patron



Prof. Tankeshwar Kumar  
Vice Chancellor, CUH

#### Patron



Prof. Neelam S Sangwan  
Dean, SIAS & Dean, Research,  
CUH

#### Convener



Prof. Bijender Singh  
Department of Biotechnology,  
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#### Organizing Secretary



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