



## Workshop

on

# Genome editing in farm animals for improved productivity and health



03

March 2023

9:00 am  
to  
6:00 pm (IST)

### About the workshop

Genome editing is the precise, targeted alteration of a DNA sequence in a living cell. In farmed animal breeding, it could be used to produce animals with specific traits that might be difficult to achieve using conventional selective breeding approaches. This workshop provides the guest lectures on basic, translational applications and strategies of genome editing in farm animals, practical demo on design of CRISPR sgRNAs, predicting off target effects.

### Workshop topics

- Basics of genome editing
- In-Silico tools to design to gene editing constructs
- Assisted reproductive technologies for genome editing applications
- Genome editing strategies in farm animals
- Advanced genome editing tools
- Status of genome editing in India and Overseas

### Who can participate

Applications are invited from Ph.D. students, Post-Docs & Young faculty (professors/scientists). Interested candidates are requested to submit online application form. There will be no participation fee for the workshop. No TA/DA or accommodation will be provided for the workshop. Screened applications will be informed through email.

Certificates will be issued to participants.

Mode:

Hybrid

Offline (ABTD, NDRI, Karnal) & Online (Zoom workshop meet)

Venue:

Animal Biotechnology Division (ABTD)  
ICAR-National Dairy Research Institute  
Karnal-132001

### Indian faculty

Dr. Probodh Borah, COVAS, AAU, Khanapara, Guwahati  
Dr. Sachinandan De, ICAR-NDRI, Karnal  
Dr. Naresh Selokar, ICAR-NDRI, Karnal  
Dr. Manoj Kumar Singh, ICAR-NDRI, Karnal  
Dr. Satish Kumar, ICAR-NDRI, Karnal  
Dr. Dharmendra Kumar, ICAR-CIRB, Hisar  
Dr. Suresh Kharche, ICAR-CIRG, Mathura  
Dr. Riaz Shah, SKUAST-Kashmir, Srinagar

### Overseas faculty

Prof. Wilfried Kues, FLI-ING, Germany

**Event Date:** 03<sup>rd</sup> March 2023 (9:00 am to 6:00 pm)  
**Event Address:** Animal Biotechnology Division (ABTD)  
ICAR-National Dairy Research Institute  
Karnal-132001 (Haryana) India  
**Contact us at:** 0184-225-9527, (+91) 8396951335  
**Email:** office.ebl1@gmail.com

**Application deadline**

22<sup>nd</sup> Feb. 2023, 5:00 pm



**Registration link and scan code:**

<https://forms.gle/saDUA5WYSQevFNnG7>

**Patron:** Dr. Dheer Singh, Director, ICAR-NDRI

**Co-Patron:** Dr. AK Singh, Joint- Director (Academics), ICAR-NDRI

### Organizing Team

**Chair:** Dr. Jai Kaushik, Head, ABTD, ICAR-NDRI

**Organizing Secretary:** Dr. Naresh Selokar, ABTD, ICAR-NDRI

**Co-Organizing Secretary:** Dr. Manoj Kumar Singh, ABTD, ICAR-NDRI

Sponsored by

National Agricultural Science Fund (NASF)  
ICAR, New Delhi