ABNT-094

CERTIFICATE OF PARTICIPATION

This is to certify that

Mr. DHANRAJ KIRAN BANDAL

Student

COA,Sonai MPKV Rahuri

has successfully completed the
21-Days International Summer School cum Course on
"Integrative Biotechnology & Bioinformatics for Sustainable Crop and Livestock Improvement"
jointly organised by **Krushishastra, MH**
with knowledge Partner
SABC, Jodhpur, IIOR, Hyderabad,
Dr PDKV, Akola, MPKV, Rahuri,
Agrovision Foundation, Nagpur,
PDKV- RIF, GASD, MH & APA, Akola
from **16th May 2026 to 5th June 2026.**

Dr. C. D. Mayee
FORMER CHAIRMAN, ASRB & AGRICULTURE COMMISSIONER, GOVT OF INDIA, PRESIDENT, (SABC), JODHPUR

Dr. S. S. Mane
DIRECTOR OF RESEARCH, DR. PDKV, AKOLA

Nikhil R. Yadav
COURSE DIRECTOR
FOUNDER & CEO, KRUSHISHASTRA

*PARTICIPANTS UNDERWENT OVER 40 HOURS OF TRAINING AS PER THE GUIDELINES LAID DOWN BY ICAR

PARTICIPANT HAS COMPLETED THE 21-DAY INTERNATIONAL SUMMER SCHOOL CUM COURSE ON "INTEGRATIVE BIOTECHNOLOGY & BIOINFORMATICS FOR SUSTAINABLE CROP AND LIVESTOCK IMPROVEMENT"

LEARNING OUTCOMES

Programme Overview

The programme provided participants with comprehensive exposure to modern biotechnology, genomics, bioinformatics, and advanced breeding technologies used in contemporary agricultural research. Key areas covered included molecular biology, genome editing, transcriptomics, proteomics, whole-genome sequencing, RNA-Seq analysis, molecular diagnostics, nanobiotechnology, and data-driven breeding approaches.
Through expert lectures, practical demonstrations, and interactive sessions, participants gained valuable insights into the application of these technologies for crop and livestock improvement. The programme also highlighted the role of biotechnology, artificial intelligence, and innovation in advancing sustainable agriculture, entrepreneurship, and industry development.

Interactions with leading scientists, academicians, and industry experts enabled participants to understand emerging trends such as CRISPR-based genome editing, genomic selection, quality seed systems, and biotechnology-driven startups, while strengthening their readiness for future research and professional opportunities.
Learning Outcomes

Upon successful completion of the programme, participants were able to:

- Understand core concepts of molecular biology, genomics and biotechnology.
- Apply bioinformatics tools for sequence analysis and genomic data interpretation.
- Explore advanced breeding approaches, including molecular breeding and genome editing.
- Understand applications of transcriptomics, proteomics and whole-genome sequencing.
- Evaluate the role of biotechnology, AI, and nanotechnology in sustainable agriculture.
- Identify innovation, entrepreneurship and industry opportunities in biotechnology.

Programme Structure

The programme was organized into four thematic modules:

- **Module 1:** Foundational Biotechnology & Core Data Skills
- **Module 2**: Applied Bioinformatics & Crop/Livestock Genomics
- **Module 3**: Advanced Breeding Analytics & Biotechnology Integration
- **Module 4**: Coordination, Leadership & Translational Engagement

SCAN TO VERIFY