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Fwd: ICAR-sponsored summer school program-reg

1 message

Vice-Chancellor, NAU Navsari <vc@nau.in>
To: Registrar <Registrar@nau.in>, dr <dr@nau.in>

Tue, Dec 10, 2024 at 10:13 AM

Office of the Vice-Chancellor
NAVSARI AGRICULTURAL UNIVERSITY,
Navsari - 396 450, Gujarat, INDIA.



----- Forwarded message -----

From: Ram Lakhani <ram.pantvarsity@gmail.com>

Date: Mon, Dec 9, 2024 at 4:36 PM

Subject: ICAR-sponsored summer school program-reg

To: <provc@skuastkashmir.ac.in>, <dr@hillagric.ac.in>, <registrar@angrau.ac.in>, <2drysrhu@gmail.com>, <vc@aau.ac.in>, <vcbausabour@gmail.com>, <vcigkv@gmail.com>, <vc@sdau.edu.in>, <vc@aau.in>, <vc@nau.in>, <vc@jau.in>, <vc@hau.ac.in>, <vc@bauranchi.org>, <vc@uasbangalore.edu.in>, <vc@uasraichur.edu.in>, <vc@uasd.in>, <vc@uhsbagalkot.edu.in>, <vc@kau.in>, <vc@rvskv.net>, <mishravcjkv@gmail.com>, <vcdbskkv@dbskkv.ac.in>, <vcvnmkv@gmail.com>, <vcmpkv@gmail.com>, <vc@pdkv.ac.in>, <vc@mpuat.ac.in>, <vc_mpuat@yahoo.co.in>, <dee@raubikaner.org>, <vc@sknau.ac.in>, <vc@aukota.org>, <vcaukota@gmail.com>, <vcunivag@gmail.com>, <registrar@tnau.ac.in>, <vcpijsau@gmail.com>, <vc@gbpuat.ac.in>, <vcgbpuat@gmail.com>, <vc@uuhf.ac.in>, <vc27uuhfm@gmail.com>, <vc@csauk.ac.in>, <vcnduat2018@gmail.com>, <vc2016svpuat@gmail.com>, <vc.buat@gmail.com>, DEAN HORTICULTURE <dhort.bckv@gmail.com>, <vc@ubkv.ac.in>, <vc@ddugu.ac.in>, <vcddugu@gmail.com>, <director.ias.bhu@gmail.com>, Dr A K Singh Sir DR BAU <drbau1908@gmail.com>, <desgbpuat@gmail.com>, <deanagriculture@bauranchi.org>, <dksbau@gmail.com>, <directorresearch@bauranchi.org>, <pksinghbau@yahoo.co.in>, <deanagnduat2019@gmail.com>, <drnduat@gmail.com>, <dean.agriculture@csauk.ac.in>, <draujodhpur@gmail.com>, <sksharma.ps1@sknau.ac.in>, <director.research@sknau.ac.in>, <millet.icar@nic.in>, <cicrnagpur@gmail.com>, <crijaf-wb@nic.in>, <directorctri@gmail.com>, <amresh.chandra@icar.gov.in>, <pdmaize@gmail.com>, <diriipr.icar@gmail.com>, <npsingh.iipr@gmail.com>, <pathakashwini@rediffmail.com>, <director@sugarcane.res.in>, <vpkas@nic.in>, <nodalofficerriassam@gmail.com>, <vishalnath1966@gmail.com>, <iarijharkhand@gmail.com>, <pcunitjabalpur@rediffmail.com>, <smallmillet@gmail.com>, <shaitri@rediffmail.com>, <oicainptobacco.ouat@gmail.com>, <kksaicrp@yahoo.co.in>, <coordinatoracarologyainp@gmail.com>, <arsnipani@gmail.com>, <Pcuahbp2018@gmail.com>, <pcnematodes@iari.res.in>, <dor.buat@gmail.com>, <mukulbreeder@rediffmail.com>, Awaneet Kumar <awaneet.nikhil@gmail.com>, satyendra tomar <satyendra331@gmail.com>, Prakash Singh <prakash201288@gmail.com>, pandurang arsode <pandurangarsode@gmail.com>, Manish Ahlawat <mrmanish63@gmail.com>

Cc: <icar.all@icar.gov.in>

ir/Madam,

Greetings from ICAR-NRRI!

We are pleased to announce that ICAR-National Rice Research Institute will be hosting the ICAR-sponsored 21-day Summer School program titled "**Breeding Modernization to Enhance Substantial Genetic Gain in Crop Plants**" from January 9th to 29th, 2025. This intensive training will provide participants with advanced knowledge in modern plant breeding techniques, focusing on enhancing genetic gains in crop plants. It will integrate cutting-edge methods and technologies to address production challenges and promote sustainable agriculture, combining both theoretical and practical sessions.

The program is intended for Scientists, Senior Scientists, Principal Scientists, or equivalent staff from ICAR Institutes, State Agricultural Universities, Central Agricultural Universities, Deemed Universities,

11 DEC 2024

Handwritten signature and date: 11/12

and similar institutions in India.

Last date for receiving applications: December 25th, 2024

Interested candidates are requested to follow the ICAR guidelines and apply through the Capacity Building Programme (CBP) Portal: <https://cbp.icar.gov.in/>

For any further clarification, please contact:

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सादर, Regards

डॉ. रामलखन वर्मा

Ramlakhan Verma (Ph.D.)

वरिष्ठ वैज्ञानिक (आनुवंशिकी एवं पौध प्रजनन)

Senior Scientist, Hybrid Rice Breeding

फसल उन्नयन प्रभाग

Crop Improvement Division

भाकृअनुप-राष्ट्रीय चावल अनुसंधान संस्थान, कटक-753006

ICAR-National Rice Research Institute,

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Twitter: <https://twitter.com/home?lang=en>

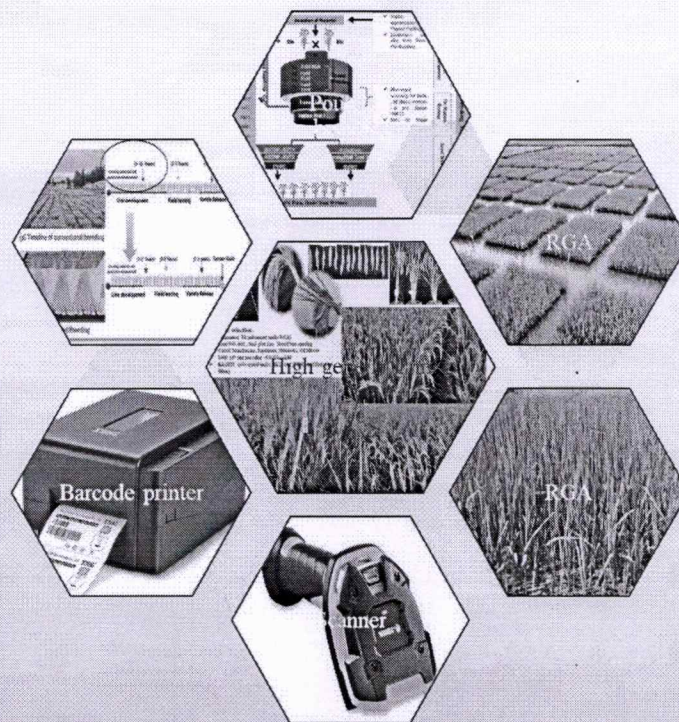


ICAR-National Rice Research Institute
Bidyadharpur, Cuttack- 753006



Summer School
On
“Breeding Modernization to enhance substantial Genetic Gain in
Crop Plants”

(09th – 29th January 2025)



Sponsored by

Indian Council of Agricultural Research

New Delhi-110012

Course Director – Dr. Ramlakhan Verma

Course Coordinator – Dr. S. Samantaray, Dr. JL Katara, Dr. Devanna & Dr.

Parameswaran C

Patron

Dr. A. K. Nayak, Director

About ICAR-NRRI

The outbreak of the devastating epiphytotic brown spot disease (*Helminthosporium* spp.) in 1942 in the Bengal province (now West Bengal and Bangladesh) led to a severe rice shortage, exacerbated by the failure of civil administration to manage the crisis, resulting in the Great Bengal Famine of 1943. In response, the Central Government decided in 1944 to intensify research on rice cultivation. The following year, the government established the Central Rice Research Institute (CRRI) on April 23, 1946, at Bidyadharpur, Cuttack, Odisha, with a 60-hectare experimental farm provided by the Odisha Government. Dr. K. Ramiah, a distinguished rice breeder, became its founding Director. In 1966, the Institute came under the administrative control of the Indian Council of Agricultural Research (ICAR), and in 2015, it was renamed ICAR-National Rice Research Institute (NRRI).

Course Background

Global climate change and evolving consumer food preferences have prompted the need for a reorientation of breeding strategies. The unpredictability of climate change has driven the demand for climate-resilient crop varieties, while simultaneously, there is an increasing need for varieties with higher nutritional value, such as those rich in antioxidants, low glycemic index (GI), low phytate content, and those offering pharmaceutical benefits. These varieties are sought after for their health benefits and potential to generate higher income.

Traditional pedigree-based varietal development is slow (taking 8-10 years), resource-intensive, and less efficient, with limited selection intensity, resulting in slower genetic gains for yield. Additionally, a major challenge is the failure to replace 30-35-year-old mega varieties in crops. For example, in rice, widely grown varieties like Swarna, MTU1010, MTU1001, Lalat, Pooja, Ranjit, Satabdi, and IR64 are still prevalent in farmers' fields, despite the introduction of many high-yielding varieties (HYVs) and hybrids. Breeders must strategically address these issues and revamp breeding, product development, and replacement strategies to achieve faster and more cost-effective genetic gains.

To meet these challenges, public sector breeding programs need strengthening, reorientation, and modernization. Since August 2017, ICAR-NRRI, in collaboration with IRRI and other NARES, has been at the forefront of "Transformative Rice Breeding" in India, initiating a range of modernization activities under six key modules: Demand-led Breeding, Modern Population Breeding Strategy, Speed Breeding for faster product development, Genomic Selection & Precision Breeding, Smart Breeding and Digitization and Robust Seed Systems for rapid varietal turnover and improved adoption. These initiatives aim to achieve higher genetic gains in a more efficient and timely manner.

This intensive 21-day training program is designed to provide participants with advanced knowledge and skills in modern plant breeding techniques, focused on enhancing genetic gains in crop plants. The program will integrate cutting-edge breeding methods with the latest technologies to accelerate genetic improvement, tackle production challenges, and promote sustainable agriculture. The training will combine theoretical instruction with practical, hands-on sessions to ensure a comprehensive understanding of the concepts.

Objectives

- To understand the principles of modern plant breeding and its role in enhancing genetic gain.
- To explore the integration of molecular breeding tools and technologies in crop improvement.
- To develop expertise in precision breeding, genomics, and genetic resource management.
- To learn about the latest innovations in breeding methods such as CRISPR, gene editing, and marker-assisted selection.
- To analyze the application of breeding strategies in diverse crop species for improving yield, disease resistance, and climate resilience.

Eligibility

Master's Degree in Agriculture and allied disciplines with working knowledge of Computers. Working not below the rank of Assistant Professor and equivalent or Scientist, Senior Scientist, Principal Scientist or equivalent in the concerned subject under Agricultural University / ICAR Institute.

Travel

The participants will be paid for the journey, to and fro, restricted to AC-II tier train fare of bus or any other means transport in vogue, as the case may be, Actual certificate by the participants. TA may be paid from the place of duty to the institute and back by shortest route.

Boarding and lodging

Accommodations will be available on request in ICAR-NRRI, Guest House.

Duration of course: 21 days (09th -29th Jan- 2025)

Last date to apply: 25th December, 2024

Number of participants: 25 (Twenty-five)

How to apply

- Visit the website <https://cbp.icar.gov.in/HomePage.aspx>
- Login using your User Id and Password. To create User Id use "Create New Account" link and fill required information to register.
- After login, click on "Participate in Training" link
- Select the particular training programme and fill the proforma online.
- Take a printout of filled application proforma and sign it.
- Get it signed by competent authority.
- Upload approved scanned copy of the application on the above CBP Portal
- Payment of Amount 50/- as registration fee may be done using RTGS/NEFTA (non-refundable) per participants to (A/C No. 10329386033; IFSC code: SBIN0002094; State Bank of India, Nayabazar, Cuttack)
- Send approved application duly forwarded by the competent authority by post to Course Director, ICAR-Summer School, ICAR-NRRI, Cuttack, PIN-753006 along with copy of RTGS/NEFT payment receipt. Contact: ramlaxhan.verma@icar.gov.in / ram.pantvarsity@gmail.com, 8895237769, 8847841041

**REGISTRATION FORM
ICAR SUMMER SCHOOL**

On

Breeding Modernization to enhance substantial Genetic Gain in Crop Plants

1. Name: _____

2. Designation: _____

3. Present employer address: _____

4. Address for correspondence: _____

5. Telephone: _____ Mob: _____ Email: _____

6. Date of birth: _____

7. Sex: _____

8. Educational Qualification (Graduation onwards):

Degree	Year	University	OGPA/Division

9. Teaching/Research/Professional Experience (Mention post held during last five 5 years and number of publications):

Post Held	Institution	Period	No. of publications

10. Mention if you have participated in any summer/Summer school/short course etc. during the previous years under ICAR/other organizations

Training/Short Course	Year	Duration	Organizing Institute

It is certified that all the information furnished by me is true to the best of my knowledge.

Date:

Signature of applicant

Recommendation of forwarding authority with seal:

Address for correspondence: