

National Conference

“Harnessing Genetic Resources for Food Security : Innovations in Conservation and Utilization for Sustainable Crop and Livestock Improvement in Northeast Region”

(Hybrid Mode)

17th-18th November 2025

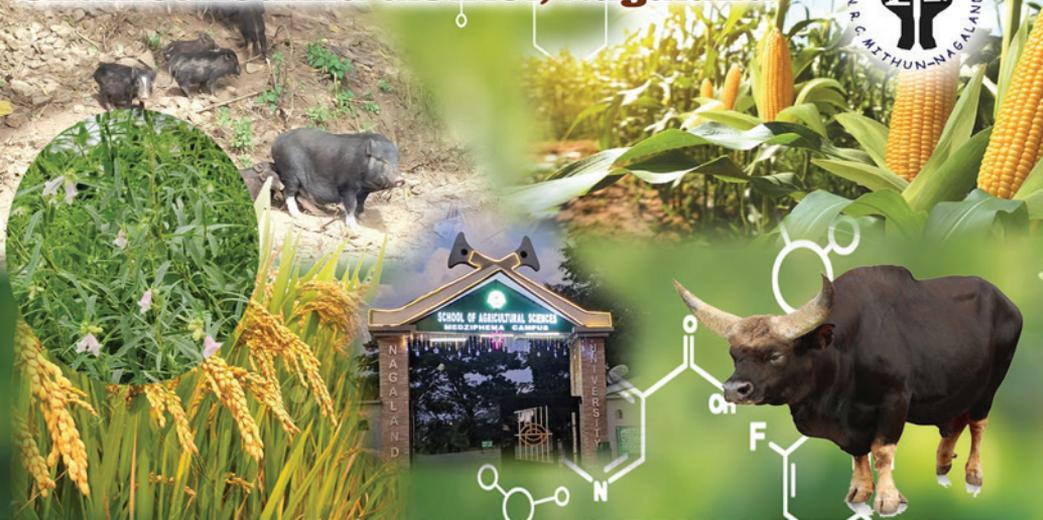
Organized by

**Department of Genetics and Plant Breeding
School of Agricultural Sciences,
Medziphema Campus
Nagaland University,
Medziphema, Nagaland**



In Collaboration with

**ICAR-National Research Centre on Mithun
(ICAR-NRCM) Medziphema,
Chümoukedima district, Nagaland**



BACKGROUND

Agriculture plays a pivotal role in ensuring food security for a growing global population, particularly in the face of challenges such as climate change, land degradation, and diminishing natural resources. In this context, plant genetic resources (PGR) emerge as a cornerstone for sustainable crop improvement. These resources, encompassing wild relatives, landraces, and modern cultivars, hold the genetic diversity essential for developing resilient, high-yielding, and nutritionally superior crop varieties. The conference, "Harnessing Genetic Resources for Food Security: Innovations in Conservation, Utilization, and Sustainable Crop Improvement," is designed to address these critical issues by bringing together experts, researchers, and practitioners from various disciplines of agricultural sciences. By focusing on the conservation, characterization, and utilization of genetic resources, this conference aims to foster collaboration and innovation to combat the pressing challenges of agricultural productivity and food security. The Medziphema Campus of Nagaland University, situated amidst the rich biodiversity of the Northeastern region of India, serves as an ideal venue for this conference. The region is recognized as a biodiversity hotspot, offering immense potential for exploring genetic diversity in indigenous and traditional crops. This conference will also highlight the importance of integrating cutting-edge technologies, such as genomics, molecular breeding, and bioinformatics, with traditional conservation approaches to maximize the utility of genetic resources. By engaging multiple stakeholders, including academicians, policymakers, industry experts, and students, the conference aims to:

- (1) Promote awareness about the role of PGR in sustainable agriculture;
- (2) Discuss strategies for combating abiotic and biotic stresses through the use of genetic diversity;
- (3) Share knowledge on modern tools and techniques for genetic resource characterization and utilization;
- (4) Build capacity for community-led conservation and breeding programs, ensuring equitable benefits for all.

Through this interdisciplinary platform, the conference aspires to pave the way for innovative solutions that harness genetic resources to secure a sustainable and resilient agricultural future, both regionally and globally.

OVERVIEW OF THE CAMPUS



The Medziphema Campus of Nagaland University is home to the School of Agricultural Sciences (SAS). Established with the mission of promoting agricultural education and research in the Northeastern region of India, the campus offers undergraduate, postgraduate, and doctoral programs in agriculture and allied sciences.

WEATHER IN NOVEMBER

In November, Medziphema, Nagaland experiences pleasant autumn weather with mild temperatures ranging between 15°C to 25°C. The climate remains dry and comfortable, providing an ideal atmosphere for academic gatherings. The serene surroundings, clear skies, and refreshing air during this season create a conducive environment for fruitful discussions and networking, making it a perfect setting to host the National Conference

HOW TO REACH

The nearest airport is Dimapur Airport, located approximately 25 kilometers from Medziphema. It has regular flights connecting to major cities like Kolkata, Guwahati, and Delhi. From the airport, taxis and shared cabs are readily available to reach the campus.



Dimapur Railway Station is the nearest railhead, situated about 22 kilometers from Medziphema. It is well-connected to major cities in India, such as Guwahati, Kolkata, and New Delhi. After arriving at Dimapur, visitors can hire a taxi or take a shared cab to the campus.



Medziphema is accessible by road via National Highway 29, which connects Dimapur and Kohima. Regular bus and cab services operate between these cities, providing easy access to the campus.



MAJOR THEMES

- 1. Integrating Landraces, Wild Relatives, and Genomic Tools for Climate-Resilient Crop Improvement**
- 2. Host-Pest/Pathogen Interaction Insights and Genetic Resources for Developing Pest- and Pathogen-Resistant Crops to Ensure Sustainable Agriculture**
- 3. Conservation Agriculture and Genetic Resources for Soil Health Restoration**
- 4. Socio-economic Impacts and Economic Valuation of Genetic Resource Utilization: Bridging the Gap Between Research and Farmer Adoption for Enhanced Rural Livelihoods**
- 5. Genetic Resource Utilization for Enhancing Fruit and Vegetable Productivity**
- 6. Integrating Genetic Resources in Sustainable Crop Management Practices**
- 7. Integrated Genetic and Genomic Innovations for Conservation and Sustainable Improvement of Mithun and Indigenous Livestock**

ABSTRACT SUBMISSION

Organizing committee invites delegates/participants to submit abstract for presentation. The abstract must be in English with the Title of the paper, Name of Author(s), Affiliations, Keywords and then the MS Word (abstract strictly not more than 250 words). Abstract must be sent as e-mail attachment to gpbnu.nationalconference25@gmail.com addressing the Organizing Secretary on or before 5th November 2025. The organizing committee reserves the right to delegate mode of presentation depending on the number of papers and merit of the paper based on originality/novelty of research work on the themes of conference. Poster size must be of 4 ft x 3 ft and 10 min will be given for oral presentation. Best oral / poster will be awarded in each category.

FULL LENGTH PAPER SUBMISSION

All participants are invited to submit their full-length research papers for publication in the **International Journal of Agriculture Sciences** (NAAS 4.18) or **Plant Science Today (Scopus indexed; NAAS 6.70)**, as approved for this conference. The last date for submission of full-length papers is November 30, 2025 through email: gphuu.nationalconference25@gmail.com. All submissions must follow the respective journal guidelines and will undergo peer review. Publication charges will be applicable, and a **special discount will be available for all accepted papers presented in the conference.**



REGISTRATION, FEES AND ACCOMMODATION

Application for registration in the given format along with fees can be directly transferred in favour of “**National Seminar on Genetic Resources 2025**”, Nagaland University to Account No: **8109684864**, Bank: **Indian Bank**, Branch: **Medziphema**, IFSC Code: **IDIB000M683**. and send the electronic receipt copy along with the registration form. Registration fees include conference kit and fooding excluding accommodation. Accompanying person will not get conference kit. **However, accommodation at university guest house may be arranged on demand along with advance payment on availability.**

REGISTER NOW



<https://docs.google.com/forms/d/c/1FAIpQLSfBxuEMTm45hbyLCXiIDWmdrbKEt2306MOhMYdUaRIPZzzwSA/viewform?usp=header>

OR SCAN THIS QR CODE



PARTICIPANTS/ DELEGATES	REGISTRATION FEES		
	Offline	Online	On spot
Faculty/ Scientists/ SMS	Rs. 3000/-	Rs. 1500/-	Rs. 3500/-
*Faculty (NU)	Rs. 2500/-	Rs. 1200/-	Rs. 3000/-
Scholar/ Students	Rs. 1500/-	Rs. 1000/-	Rs. 2000/-
*Scholar/ Students (NU)	Rs. 1000/-	Rs. 750/-	Rs. 1500/-
Farmers	Rs. 500/-	NA	Rs. 500/-
Member from Industry	Rs. 5000/-	Rs. 3000/-	Rs. 5000/-
Accompanying person	Rs. 1500/-	NA	Rs. 1500/-

*NU: Nagaland University

IMPORTANT DATES



Last date of Registration	: 5 th November, 2025
Last date of Abstract submission	: 5 th November, 2025
Date of acceptance of abstract	: 5 th November, 2025
Last date of Full-length paper submission	: 30 th November, 2025

AWARDS AND RECOGNITION



Best Oral Presentation Awards:

Presented to the top three participants from each theme delivering outstanding oral presentations based on originality, clarity, and scientific impact.

Best Poster Presentation Awards:

Given to the three best poster presenters from each theme demonstrating innovation, design quality, and research significance.

Special Thematic Awards:

Recognizing exceptional research contributions under each major theme of the conference.

CONFERENCE COMMITTEE

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