

National conference
on
"Harnessing Genetic Resources
for Food Security: Innovations in
Conservation and Utilization for
Sustainable Crop Improvement in
Northeast Region"



November 17-18, 2025
(Hybrid Mode)



Organized by
Department of Genetics and Plant Breeding
School of Agricultural Sciences, Medziphema Campus
Nagaland University, Medziphema, 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 seminar, "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 seminar 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 seminar. The region is recognized as a biodiversity hotspot, offering immense potential for exploring genetic diversity in indigenous and traditional crops. This seminar 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 seminar 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 seminar 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 Seminar.

How to Reach

By Air: 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.

By Train: 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.

By Road: 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

Abstract Submission

Organizing committee invites delegates/percipients to submit abstract for presentation. The abstract must be in English with the Title of the paper, Name of Author(s), Affiliations, Keywords and theme in MS Word (abstract strictly not more than 250 words). Abstract must be sent as e-mail attachment to gpbnu.nationalseminar2025@yahoo.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.

COMMITTEE

- **Chief Patron:** Vice Chancellor, Nagaland University
- **Patron:** Pro-Vice Chancellor, SAS, Nagaland University
- **Chairperson:** Dean, SAS, Nagaland University
- **Local Advisors:**
 - HOD, Agronomy, SAS, NU
 - HOD, Agricultural Economics, SAS, NU
 - HOD, Agricultural Extension, SAS, NU
 - HOD, Agricultural Engineering, SAS, NU
 - HOD, Entomology, SAS, NU
 - HOD, Horticulture, SAS, NU
 - HOD, Plant Pathology, SAS, NU
 - HOD, Soil & Water Conservation, SAS, NU
 - HOD, Soil Science, SAS, NU
 - HOD, Livestock Production & Management, SAS, NU
 - HOD, Rural Development & Planning, SSS, NU
- **Convenor:** Prof. (Dr.) Malini Barthakur Sharma
- **Co-Convenor:** Prof. (Dr.) Hanuman Prasad Chaturvedi
- **Organizing secretary : Dr. Rupsanatan Mandal**
- **Co-Organizing Secretary:** Dr. Merentoshi
- **Treasurer:** Dr. Niranjan Kumar Chaurasia

For details please contact on 08697668107 /9036843674

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.

Participants/ delegates	Registration fees	
	Offline	Online
Faculty/ Scientists/ SMS	Rs. 3000/-	Rs. 1500/-
Farmers	Rs. 500/-	NA
Scholar/ Students	Rs. 1500/-	Rs. 1000/-
Member from Industry	Rs. 5000/-	Rs. 3000/-
Accompanying person	Rs. 1500/-	NA

Last date of registration : 5th November, 2025
Last date of Abstract submission : 5th November, 2025
Date of acceptance of abstract : 10th November, 2025

Registration form

Full Name :
Designation :
Department :
Organizations/ Institution :
Address :
Mobile No. :
Email Id. :
Title of the Abstract :
Transduction ID of :
Registration Fees
Accommodation Required : Yes
No.....
Meal type : Veg..... Non
Veg.....
.....
Signature of participants with date

Invitation Letter

Dear Sir/Madam,

**Greetings from the Department of Genetics and plant Breeding,
Nagaland University!**

It is with great pleasure that we invite you to participate in the National Seminar on "**Harnessing Genetic Resources for Food Security: Innovations in Conservation and Utilization for Sustainable Crop Improvement in Northeast Region**" to be held on 17th and 18th November 2025, at the Medziphema Campus, Nagaland University. This seminar aims to provide a vibrant platform for academicians, researchers, students, and practitioners from diverse fields such as genetics and plant breeding, plant pathology, entomology, horticulture, agronomy, soil science, rural development, agricultural economics, and extension to share their knowledge, research findings, and innovative ideas. The Medziphema Campus, nestled amidst the rich biodiversity of Nagaland, provides an inspiring backdrop for intellectual exchange and collaboration. Your participation would greatly enrich the discussions and contribute to the collective effort to address the challenges of food security and sustainable agriculture. We encourage you to submit your abstracts for oral or poster presentations. The details regarding abstract submission, registration, and the seminar program are available in the enclosed brochure. We eagerly look forward to your participation in this significant event. Your presence and contributions will undoubtedly make this seminar a grand success.

Warm regards,

Prof. M.B. Sharma, Convener

and

Dr. Rupsanatan Mandal, Organizing Secretary (M: 8697668107)