



**First circular
5th IGM 2024**



**5th International
Group Meeting (IGM)**

on

**Climate-Proofing
Cereal Agriculture:**

**Strategies for
Resilience and
Sustainability**

March 27 – 29, 2024

Venue:

**ICAR-Indian Institute of Wheat & Barley
Research (IIWBR), Karnal, Haryana, India**

Organized by

**Society for Advancement of Wheat & Barley Research (SAWBAR)
Karnal - 132001, Haryana, India**

&

**ICAR-Indian Institute of Wheat & Barley Research (IIWBR)
Karnal- 132001, Haryana, India**

IGM Website: igm2024.eventsdashboard.in | SAWBAR website: sawbar.in

About the 5th International Group Meeting (IGM) on Climate-Proofing Cereal Agriculture: Strategies for Resilience and Sustainability

Cereal agriculture is a cornerstone of global food security, providing sustenance for billions of people worldwide. However, the escalating impacts of climate change pose significant threats to cereal crops, thereby challenging food production and livelihoods. To safeguard against these challenges, it becomes imperative to adopt strategies that climate-proof agriculture, enhancing its resilience to the changing climate. Various approaches and technologies aimed at bolstering cereal farming systems include the adoption of climate-resilient varieties, diversification of crops, precision agriculture, climate-smart farming practices, and efficient nutrient management. Developing and promoting the cultivation of climate-resilient crop varieties is thus crucial. These varieties are specifically bred to withstand the challenges posed by extreme weather events, changing precipitation patterns, and elevated temperatures. Besides, advanced genetic engineering techniques including genome editing can accelerate the development of crops with enhanced resilience traits, such as drought tolerance, disease resistance, and improved nutrient efficiency.

In the present context, climate-proofing cereal agriculture is not only a necessity for ensuring global food security but also a critical step towards building resilient and sustainable farming systems. By embracing a combination of crop diversification, advanced breeding technologies, precision agriculture, water management, agroforestry, and climate-smart farming practices, we can empower farmers to navigate the challenges presented by climate change and secure the future of cereal production. This integrated approach is essential for creating a robust and adaptable agricultural sector capable of withstanding the uncertainties of a changing climate.

The 5th International Group Meeting (IGM) is being conceived to address these challenges and will provide a platform for researchers, academicians, extension workers, and students working in cereal crops to share and discuss their latest innovations and advancements in these crops primarily focusing on research. Moreover, IGM will provide invaluable opportunity to develop new collaborations and networking among professionals and experts across geographical boundaries to collectively address shared challenges. Through open dialogue, knowledge sharing and the establishment of international partnerships, this meeting will play a crucial role in fostering a more interconnected and collaborative global community through scientific deliberations.

Thematic areas

- Conventional breeding, biotechnology, bio-informatics, genetic engineering, phenomics, genomics and proteomics for cereal improvement
- Mitigation Strategies for abiotic stress management in cereal crops
- Biotic Stress dynamics under changing environments
- Cereal quality, nutrition, post-harvest processing, value addition and marketing for food safety and global nutritional security
- Climate change mitigation strategies, resource management, conservation agriculture, integrated farming for sustainable cereal production systems
- Industry linkages and agri-business for food and nutritional security

Background of International Group Meetings

Previously, the Wheat Research Technology Fund (WRTF) coordinated the three series of International Group Meetings (IGMs) on wheat. The first IGM on wheat was conducted at DWR, Karnal in 1997, emphasizing "Wheat Research Needs Beyond 2000 AD". The second IGM convened in 2002 at ARI, Pune, concentrating on 'Wheat Technologies for Warmer Areas.' Subsequently, the third IGM took place from February 9-12, 2011, at UAS, Dharwad, addressing "Wheat Productivity Enhancement under Changing Climate." The most recent fourth IGM, was jointly organized by IIWBR and SAWBAR during February 14-16, 2019, at CSKHPKV, Palampur, with a focus on "Wheat Productivity Enhancement through Climate Smart Practices."

Call for Abstracts

The organizers of 5th International Group Meeting on "Climate-Proofing Cereal Agriculture: Strategies for Resilience" invite abstracts from interested persons engaged in research, development, marketing, finance, export organizations and industries representing wheat. Abstracts will be evaluated by a group of eminent professionals for their suitability for oral/poster presentation. Authors are requested to specify the relevant thematic area in which the paper needs to be considered. Selected abstracts will be published as full length articles in the form of in the special issue of NAAS rated Journal of Cereal Research (NAAS 2024 ratings: 5.05) published by Society for Advancement of Wheat & Barley Research (SAWBAR), Karnal, Haryana, India. The Abstract should be more than 500 words typed. The registered participants shall only be allowed for only one Oral or Poster presentations (as first author) based on selection by the technical screening committee. However, individual can be a co-author of abstracts submitted by other registered delegates.

Abstract Submission

The abstract can be submitted only online by uploading the files on conference website

igm2024.eventsdashboard.in

Steps for Abstract Submission

- Register / Sign up
- Go to Participants Dashboard and click on Abstract Submission
- Fill in the details required for abstract submission and attach the abstract file in Word format prepared as per the guidelines provided.

Presentations & Language

Presentations include keynote and invited lectures (oral and poster presentations).

Awards

Best Poster and Oral presenters of each session will be felicitated with awards. Winners will receive certificates and mementoes.

Registration

All participants are required to register as per the schedule and pay the registration fee using the following link:

igm2024.eventsdashboard.in

Important Dates

Meeting dates	March 27-29, 2024
Abstract submission deadline	March 15, 2024
Abstract Acceptance Notification	March 20, 2024
Early Bird Registration Deadline	March 15, 2024
Registration Final Deadline	March 27, 2024

Participation Fees

Category	Physical Mode				Virtual Mode**			
	On/before deadline		After deadline		On/before deadline		After deadline	
	SAWBAR members	Non-SAWBAR members	SAWBAR members	Non-SAWBAR members	SAWBAR members	Non-SAWBAR members	SAWBAR members	Non-SAWBAR members
Indian Delegates	Rs 4000	Rs 4500	Rs 5000	Rs 5500	Rs 2000	Rs 2500	Rs 2500	Rs 3000
Research Scholars/SRF/ Students	Rs 2000	Rs 2500	Rs 2500	Rs 3000	Rs 1500	Rs 2000	Rs 2000	Rs 2500
Foreign delegates	US\$ 200		US\$ 250		US\$ 100		US\$ 150	
Corporate delegates	Rs 10000		Rs15000		Rs 8000		Rs 10000	
Accompanying persons*								
Indian	IN₹ 2500		IN₹ 2500		NA			
Foreign	US\$ 100		US\$ 150					

* No registration kit will be provided ** Only E-certificates will be given to virtual participants

Note: Participation fee is same for presenting and non-presenting (without abstract submission) delegates

Sponsorship

We welcome sponsorship for the meeting from various organizations, professionals, manufacturers, and suppliers based on the following categories. The Platinum sponsor will receive complimentary advertising space in banners, posters, and the souvenir (Full page color). Gold sponsors will receive complimentary advertising space in banners, posters, and the souvenir (Full page B&W). Silver sponsors will receive complimentary advertising space in banners, posters, and the souvenir (Half page B&W). Bronze sponsors will receive half page (B&W) advertisements in souvenir. Additionally, separate sponsorship opportunities in the form of sponsoring lunch and dinner for the meeting are also available.

Type of sponsorship	Sponsorship Amount (₹)	Delegate number*
Platinum	₹2,00,000	5
Gold	₹1,00,000	3
Silver	₹50,000	2
Bronze	₹25,000	1

*Free registration for conference

Venue & Weather

The conference is scheduled to take place at the ICAR-Indian Institute of Wheat and Barley Research (IIWBR), Karnal, located 132 km north of Delhi along National Highway No. 1 (Grand Trunk Road). The average temperature for a typical day in February ranges from a high of 25°C to a low of 9°C.

Visa Requirement for Foreign Delegates

All foreign delegates need a valid passport and an Indian visa. Invitation letter, will be made available on request.

Accommodation

Hotel	Contact/E-mail
Hotel Noor Mahal (5 Star) Sector 32, Karnal	0184-7133333 Mob: 9996787889 E-mail: sales@noormahal.in Website: www.noormahal.in
The Vivaan Hotel & Resorts, 134 Milestone, NH-1, Karnal	Mob: 9896092813 E-mail: info@thevivaan.com Website: https://thevivaan.com/
Hotel Jewels (4 Star) Karnal	0184-4098888, 2266996 Mob: 8572877709 E-mail: hotel_jewels@rediffmail.com Website: www.hoteljewels.in
Hotel Prem Plaza (3 Star) Railway Road, Karnal	0184-4033358 Mob: 8395900023 Email: info@premplaza.com Web: premplaza.com
Hotel Leela Grande (3 Star) Kunjpura Road, Karnal	0184-4040001 Mob: 8930889404 Website: www.leelagrandehotel.com
Hotel Grace Model Town, Karnal	Contact: 0184-2265333 Mob: 9416012321 E-mail: hotelgracekarnal@gmail.com Web: hotelgracekarnal.com
Hotel Anand Regency Mughal Canal, Karnal	Contact: 9671656591 E-mail: anandregency1@gmail.com

Advisory Committee

Chief Patron

Dr. Himanshu Pathak
Secretary, DARE & DG, ICAR, New Delhi

Patron

Dr. TR Sharma, DDG (Crop Sciences), ICAR, New Delhi

International Advisory Committee (IAC)

Dr. Bram Gowartes

Director General, CIMMYT, Mexico

Dr Jacqueline d'Arros Hughes

Director General, ICRISAT, Hyderabad

Dr. Aly Abousabba

Director General ICARDA, Morocco

Dr. Michael Baum

DDG, ICARDA, Morocco

Dr. Ravi P Singh

Head of Global Wheat Improvement, CIMMYT, Mexico

Dr. ML Jat

Director, Resilient Farm and Food Systems, ICRISAT, Hyderabad

Dr. Rajeev Varshney

Professor, Food Futures Institute, Murdoch, Australia

Dr. Ian King

University of Nottingham, UK

Dr. Martin Broadley

Science Director, Rothamsted Research, UK

Dr. Shiv Agrawal

Regional Co-ordinator, ICARDA-South Asia Program, New Delhi

Dr. AK Joshi

CIMMYT - India Office, New Delhi

Dr. Pawan Singh

Head of Wheat Pathology, CIMMYT, Mexico

Dr. Velu Govindan

Senior Wheat Breeder, CIMMYT, Mexico

Prof. Harbans Bariana

University of Sydney, Australia

Dr Beat Keller

University of Zurich, Switzerland

National Organizing Committee (NOC)

Dr. RS Paroda,

Former Secretary, DARE & DG, ICAR, New Delhi

Dr. T Mohapatra

Chairman, PPVFRA, New Delhi

Dr. PL Gautam

Former VC, GBPUAT, Pantnagar and Former Chairman, PPVFRA, New Delhi

Dr. RC Agrawal

DDG(Education), ICAR Headquarters, New Delhi

Dr AK Singh, Director

ICAR-IARI, New Delhi

Dr. GP Singh

Director, ICAR-NBPGR, New Delhi

Dr. RM Sundaram

Director, ICAR-IIRR, Hyderabad

Dr. HS Jat

Director, ICAR-IIMR, Ludhiana

Dr. SS Gosal

Vice-Chancellor, PAU, Ludhiana

Dr. MS Chauhan

Vice-Chancellor, GBPUAT, Pantnagar

Prof. BR Kamboj

Vice-Chancellor, CCSHAU, Hisar

Dr. SC Dubey

Vice-Chancellor, BAU, Ranchi, Jharkhand

Dr. PL Patil

Vice-Chancellor, UAS, Dharwad

Dr. SK Pradhan

ADG-FFC, ICAR Headquarter, New Delhi

Dr. DK Yadav

ADG-Seed, ICAR Headquarter, New Delhi

Dr. Ravish Chatrath

ICAR Scientist Emeritus, ICAR-IIWBR, Karnal

Dr. SC Bhardwaj

ICAR Scientist Emeritus, ICAR-IIWBR, Karnal

Dr. Randhir Singh

Principal Investigator (Social Sciences), IIWBR, Karnal

Dr. Sewa Ram

Principal Investigator (Quality), IIWBR, Karnal,

Dr. SC Tripathi

Principal Investigator (Resource Management), IIWBR, Karnal

Dr. OP Ahlawat

Principal Investigator (Crop Improvement), IIWBR, Karnal

Dr. Omvir Singh

Principal Investigator (Barley), IIWBR, Karnal

Dr. AS Kharub

Principal Scientist, ICAR-IIWBR, Karnal

Dr. Ratan Tiwari

Principal Scientist, ICAR-IIWBR, Karnal

Dr. Arun Gupta

Principal Scientist, ICAR-IIWBR, Karnal

Dr. Chuni Lal

Principal Scientist, ICAR-IIWBR, Karnal

Dr. Sindhu Sareen

Principal Scientist, ICAR-IIWBR, Karnal

Dr. Satyavir Singh

Principal Scientist, ICAR-IIWBR, Karnal

Dr. Anuj Kumar

Principal Scientist, ICAR-IIWBR, Karnal

Dr. Anil Khippal

Principal Scientist, ICAR-IIWBR, Karnal

Dr. RS Chhoker

Principal Scientist, ICAR-IIWBR, Karnal

Dr. Rajender Singh

Principal Scientist, ICAR-IIWBR, Karnal

Dr. Pradeep Sharma

Principal Scientist, ICAR-IIWBR, Karnal

Dr. Rekha Malik

Principal Scientist, ICAR-IIWBR, Karnal

Dr. Amit Kumar Sharma

Principal Scientist, ICAR-IIWBR, Karnal

Dr. Sunil Kumar

Principal Scientist, ICAR-IIWBR, Karnal

Conveners

Dr. Charan Singh

Treasurer, SAWBAR & SS, ICAR-IIWBR, Karnal

Dr. Sonia Sheoran

Senior Scientist, ICAR-IIWBR, Karnal

Dr. Hanif Khan

Senior Scientist, ICAR-IIWBR, Karnal

Dr. Chandra Nath Mishra

Senior Scientist, ICAR-IIWBR, Karnal

Dr. Prem Lal Kashyap

Senior Scientist, ICAR-IIWBR, Karnal

Dr. HM Mamrutha

Senior Scientist, ICAR-IIWBR, Karnal

Dr. Vikas Gupta

Senior Scientist, ICAR-IIWBR, Karnal

Dr. OP Gupta

Senior Scientist, ICAR-IIWBR, Karnal

Dr. Umesh Kamble

Senior Scientist, ICAR-IIWBR, Karnal

Dr. Santosh Kumar Bishnoi

Senior Scientist, ICAR-IIWBR, Karnal

Dr. OP Gangwar

Senior Scientist, RS, ICAR-IIWBR, Shimla,HP

Dr. Rinki

Scientist, ICAR-IIWBR, Karnal

Dr. Vanita Pandey

Scientist, ICAR-IIWBR, Karnal

Dr. Anuj Kumar

Scientist, ICAR-IIWBR, Karnal

Dr. Charu Lata Sharma

Scientist, RS, ICAR-IIWBR, Shimla, HP

Dr. Tapas Ranjan Das

Principal Scientist, ICAR-IARI, Karnal

Dr. Sandeep Sharma

Asst. Prof., BHU, Varanasi, UP

Dr. Abhay Dashora

Asst. Prof., MPUAT, Udaipur, Rajasthan

Dr. Gurudatt Hegde,

Principal Scientist, Pl. Pathology, UAS-D, Karnataka

Dr. Nilesh Magar

Junior Breeder, MPKV, ARS, Niphad, Maharashtra

Organizing Committee

Chairman

Dr. Gyanendra Singh

President SAWBAR &
Director, ICAR-IIWBR, Karnal

Co-Chairmen

Dr. BS Tyagi

Vice-President SAWBAR & Principal Investigator (AICRP)
ICAR-IIWBR, Karnal

Dr. MS Saharan

Vice-President SAWBAR & Head, Plant Pathology Division,
ICAR-IARI, New Delhi

Organizing Secretary

Dr. Poonam Jasrotia

General Secretary, SAWBAR & Principal Investigator (Crop Protection)
ICAR-IIWBR Karnal

Email: sawbargs@gmail.com; Mobile:8511786663

Co-Organizing Secretaries

Dr. Satish Kumar

Editor in Chief, JCR & Senior Scientist, ICAR-IIWBR Karnal
Email: editorincheifjwr@gmail.com: Mobile:9467994844

Dr. JB Singh

Joint Secretary, SAWBAR & Principal Scientist,
ICAR-IARI, Regional Centre, Indore
Email: sawbargs@gmail.com; Mobile: 9752159512

Map of meeting venue



Tourist Places Near Meeting Venue

Karnal, Kurukshetra and Amritsar, Punjab



Church Tower, Karnal



Karan Lake, Karnal



**Noormahal Palace,
Karnal**



**Golden Temple,
Amritsar**



Kurukshetra



Karnal Haveli