



2nd International Conference & Expo of Plant Sciences

Plant Biodiversity and Food Security in the Wake of Climate Change (PBFS-CC 2024)

November 19-21, 2024

Venue: PMAS-Arid Agriculture University Rawalpindi

Organized By || Faculty of Sciences | PMAS-Arid Agriculture University Rawalpindi



Patron-in-Chief

Prof. Dr. Muhammad Naeem

Vice Chancellor

PMAS-Arid Agriculture University Rawalpindi



Patron/Chief Organizer

Prof. Dr. Rahmatullah Qureshi

Dean, Faculty of Sciences

PMAS-Arid Agriculture University Rawalpindi

We are pleased to organize the 2nd International Conference on Plant Sciences & Expo 2024 (ICPSE-2024) under the theme: "Plant Biodiversity and Food Security in the Wake of Climate Change (PBFS-CC)". The conference will be attended by the leading Botanists, Ecologists, Agriculturalists, Foresters, Policymakers, Herbalists, and Industrialists of the world. This event shall provide an ideal platform for the researchers, and scientists to exchange ideas, and share their experiences. There will also be deliberations by the eminent speakers.

ICPSE-2024 aims to present the most recent advances in plant biodiversity with a special emphasis on food security in the climate change scenario. It is important to educate young people about the variety of available plant resources and their sustainable utilization. The recent research has helped us understand how these genetic resources not only play their role in the development of societies but are also used to boost the country's economy.

Conference Introduction

Plant biodiversity is one of the key components of sustainability, food security, and nutrition. Owing to climate change, environmental degradation, and the rapid growth in the human population, studying biodiversity at the global level becomes imminent if sustainable development and food issues are to be addressed. Plant biodiversity has become an increasingly recognized critical issue at local, national, and global levels. This leads to the exertion of efforts toward finding practical and effective means of countering genetic erosion and the preservation of biological diversity. Modern plant biology merged with agricultural technologies offers solutions for the conservation, improvement, and exploitation of plant biodiversity. With about 20,000 species of edible plants, the plant kingdom is enormous and has huge scope for research into new food crops, medicinal plants, plants of ecological benefit, or industrially useful plants. Plant Biodiversity and Food Security in the Wake of Climate Change seeks to address the critical relationship between plant biodiversity, food security, and the increasing challenges posed by climate change. The conference aims to bring together experts, researchers, policymakers, and practitioners to discuss the current state of plant biodiversity, its role in ensuring food security, and the impacts of climate change on these vital aspects.

Climate change poses unprecedented challenges to global food security, exacerbating existing vulnerabilities and threatening the livelihoods of millions. The preservation of plant biodiversity is crucial for developing resilient and sustainable agricultural systems capable of adapting to these challenges. This conference aims to bring together leading experts, researchers, policymakers, and practitioners to explore the intricate relationship between plant biodiversity and food security in the context of climate change.

Department of Botany at Pir Mehr Ali Shah Arid Agriculture is organizing the 2nd International Conference & Expo on Plant Sciences 2024 (ICPSE-2024) to be scheduled from November 19-21, 2024. PMAS-Arid Agriculture University Rawalpindi through ORIC, Pakistan Science Foundation, Higher Education Commission of Pakistan, Punjab Higher Education Commission, and various relevant industries are participating in this conference through the exhibition.

The theme of the conference is “Plant Biodiversity and Food Security in the Wake of Climate Change (PBFSC)” to bring new insights into plants and to bring together leading researchers and scientists working in the domain.

The conference will be attended by the leading Botanists, Ecologists, Agriculturalists, Herbalists, and Industrialists of the world. This event shall provide an ideal platform for the researchers, and scientists to exchange ideas, and share their experiences. The scientific program covers plenary lectures from invited speakers and presentations from researchers. The conference promotes the participation of scientists by encouraging them to submit their original work to be considered for “Oral Presentation” or “Poster Presentations”.

The Department of Botany, Pir Mehr Ali Shah Arid Agriculture University has a rich history of organizing seminars/webinars to create awareness among scientific communities, stakeholders, and students. The present conference is a part of that action-oriented activity.

Aims & Objectives

- ◆ To disseminate knowledge and research findings related to plant biodiversity with a main focus on food plants for product development.
- ◆ Assess the current and projected impacts of climate change on plant biodiversity and food security.
- ◆ Identify and discuss innovative strategies to conserve plant biodiversity and enhance the resilience of food systems.
- ◆ Explore the potential of underutilized and climate-resilient plant species for future food production.
- ◆ Foster international collaboration and knowledge exchange to address the challenges and opportunities at the intersection of plant biodiversity, climate change, and food security.

Target Audience

- ◆ Plant/Social scientists and researchers
- ◆ Climate change experts
- ◆ Food security specialists
- ◆ Agricultural policymakers
- ◆ Farmers and agricultural practitioners
- ◆ International organizations, NGOs, and civil society organizations
- ◆ Private sector representatives
- ◆ Academia and educationists
- ◆ Students and young professionals
- ◆ Policymakers and government officials
- ◆ Private sector representatives
- ◆ Nature lovers

Conference Format

The conference will feature a combination of keynote presentations, panel discussions, oral presentations, poster sessions, and expo.

Expected Outcomes

- ◆ Increased understanding of the complex interactions between plant biodiversity, climate change, and food security.
- ◆ Identification of knowledge gaps and research priorities.
- ◆ Development of concrete recommendations and strategies for policymakers and practitioners to conserve plant biodiversity and ensure food security in a changing climate.
- ◆ Fostering international collaboration and partnerships to address shared challenges.

Conference Sub-Themes

1. Biodiversity in Food Security
2. Plant Biodiversity & Climate Change
3. Sustainable Food Production
4. Economic benefits of plant biodiversity
5. Agroecology and biodiversity conservation
6. Sustainable Agriculture
7. Good Health and Wellbeing
8. Role of plant biodiversity in carbon sequestration and climate mitigation
9. Plant genetic resources and climate change adaptation
10. Climate-smart agriculture and food systems
11. Convergences of Natural and Social Sciences in the Era of Climate Change & Biodiversity
12. Policy frameworks for promoting plant biodiversity and food security

Exhibition Themes

Products can be of any kind from seed to Food and beverages production, Herbal Products and medicines, Cosmetics, Food Supplements & Nutraceuticals, etc.

Important Dates

◆ Abstract Submission (Oct. 15, 2024)

◆ Abstract Decision (Oct. 20, 2024)

Registration Fees

	Early Bird Registration (Last Date: 30-10-2024)	On Desk Registration
Students	Rs. 2000/-	Rs. 2500/-
Faculty, Industry Participants	Rs. 5000/-	Rs. 6000/-
Foreign Participants	US \$ 250/-	US \$ 300/-

Submission of Registration Fees

EasyPaisa / Jazz Cash Account
Account No. (within Pakistan): 0300-6730496

IBAN for (Other Countries):
PK65TMFB0000000071979472

Accommodation

Accommodation is available on first come first serve basis and charges per night shall be paid by the participants themselves.

Contact: Dr. Naveed Iqbal Raja (03135257004)

Call for Abstracts

Researchers are invited to submit abstracts for oral and poster presentations on relevant topics. The conference website will provide detailed information and submission guidelines. The abstracts should be prepared in MS Word and submitted to: icpse@uaar.edu.pk

Sponsorship Opportunities

Organizations/companies and laboratories are invited to sponsor the conference and showcase their commitment to sustainable food systems and plant biodiversity conservation.

Publication of Abstract Book

Abstracts shall be reviewed by technical committee and approved abstracts shall be published in the abstract book.

Excursion Trip

The Organizing Committee has arranged an excursion to Nathia Gali.



Advisory Board / Panelists

1. Prof. Dr. Khalid Mehmood Khan
Ex VC PMAS AAUR/ Ex-President PAS
2. Prof. Dr Tariq Mukhtar,
Dean FCFS
3. Prof. Dr. Arfan Yousaf
Dean, FVAS
4. Prof. Dr Muhammad Azam Khan
Member PARC
5. Dr. Mahmood Nasir
Ex IG Forest, Pakistan
6. Prof. Dr. Muhammad Qaiser
Ex VC University of Karachi / Chief editor, Pak. J. Botany
7. Prof. Dr. Khan Bahadar Marwat
Ex VC AUP / President and Chief editor Weed Science Society of Pakistan
8. Prof. Dr. Zabta Khan Shinwari
VC Federal Urdu University of Art Science and Technology (FUUAST)

Organizing Committee

1. Prof. Dr Khalid Saifullah
Director ORIC
2. Prof. Dr. Muhammad Hanif
Chairman, Dept of Statistics
3. Dr. Muhammad Sajid
Chairman, Dept of Zoology, Wildlife and Fisheries
4. Dr. Noshin Ilyas
Associate Professor of Botany
5. Dr. Naveed Iqbal Raja
Associate Professor of Botany
6. Dr. Zia-ur-Rehman Mashwani
Assistant Professor of Botany
7. Dr. Khafsa Malik
Assistant Professor of Botany
8. Dr. Saira Asif
Assistant Professor of Botany
9. Dr. Ghulam Shabbir
Associate Professor of Plant Breeding and Genetics
10. Dr. Muhammad Sheeraz Ahmad
Associate Professor of Biochemistry

Guests of Honour



Prof. Dr. Khalid Mehmood Khan (S.I.)

Ex VC, PMAS-Arid Agriculture University Rawalpindi
Ex-President, Pakistan Academy of Sciences



Mr. Johnny Shields

Senior Facility Manager
US Embassy, Islamabad

International Invited Speakers



Prof. Dr. Kinney Chad

Director, Cannabis Research Institute,
Colorado State University, USA



Dr. Ozair Chaudhry

Advisor Environment & Climate,
Ontario, Canada.



Prof. Andre Rodrigo Rech

Federal University of Vales do
Brazil



Prof. Dr. Muhammet Uzun

Marmara University
Turkiye



Prof. Dr. Monier Abd Elghani

Cairo University
Egypt



Prof. Dr. Volkan Okatan

Eskisehir Osmangazi Üniversitesi,
Turkiye



Dr. Athar Tariq

Dept. of Food & Agriculture, Sacramento,
California, USA



Dr. Moha Haddouch

Member UNESCO Biosphere Reserves
National Committee, Morocco



Prof. Dr. Jeff Ollerton

University of Northampton
UK

National Invited Speakers

1. Prof. Dr. Zabta Khan Shinwari
*VC Federal Urdu University of Art
Science and Technology (FUUAST)*
2. Prof. Dr. Muhammad Qaiser
*Ex VC University of Karachi / Chief
editor, Pak. J. Botany*
3. Prof. Dr. Khan Bahadar Marwat
*Ex VC AUP / President and Chief
editor WSSP*
4. Prof. Dr. Raza Bhatti
VC Shaikh Ayaz University, Shikarpur
5. Prof. Dr. Manzoor Soomro
*Ex Chairman PSF / Ex-President
ECO-SF and Advisor ECO-SF*
6. Prof. Dr. Muhammad Mukhtar
VC National Skill University, ISB
7. Prof. Dr. Jehan Bakht
*VC Agriculture University of
Peshawar*
8. Prof. Dr. Hassan Sher
VC University of Swat
9. Prof. Dr. Shafiq Ahmad
VC University of Haripur
10. Prof. Dr. Zarin Fatima Rizvi
VC GCWU, Sialkot
11. Dr. Bushra Siddiqui
*Department of English and Literary
Studies, UMT, Lahore*
12. Prof. Dr. Anjum Perveen
*Center for Plant Conservation,
University of Karachi*
13. Prof. Dr. Ghulam Mujtaba Shah
Dean, Hazara University, Mansehra
14. Prof. Dr. Mushtaq Ahmad
*Chairman, Department of Plant
Sciences, QAU, Islamabad*
15. Prof. Dr. Ghulam Dastagir
*Chairman, Dept. Of Botany
University of Peshawar*
16. Prof. Dr. Ikramullah Khan
*Abdul Wali Khan University,
Mardan*
17. Prof. Dr. Rabia Asma Memon
*Director Institute of Plant Sciences,
University of Sindh, Jamshoro*
18. Dr. Muzaffar Sirohi
*Shah Abdul Latif University,
Khairpur, Sindh*
19. Dr. Muhammad Abdullah
*Director, Cholistan Institute of
Desert Sciences (CIDS), IUB*
20. Prof. Dr. Sher Wali Khan
*Chairman Plant Sciences, KIU,
Gilgit*
21. Prof. Dr. Hamayun Shaheen
*Chairman, Dept. of Botany,
UoAJK Muzaffarabad*
22. Dr. Abdul Rauf
Director ORIC, UoAJK Muzaffarabad
23. Prof. Dr. Ibrar Shinwari
IIU, Islamabad
24. Dr. Mehmood Nasir
Ex-IG Forest, Islamabad
25. Dr. Amir Sultan
*Director, National Herbarium,
NARC, Islamabad*
26. Prof. Dr. Tariq Mukhtar
Dean Agriculture, PMAS-AAUR
27. Prof. Dr. Rahmatullah Qureshi
Dean Sciences, PMAS-AAUR
28. Dr. Asad Ullah Khan
*Director, Centre of Plant Biodiversity,
University of Peshawar*
29. Prof. Dr. Zahid Akram
*Chairman PBG, Faculty of Agriculture,
PMAS-AAUR*

For Further Information & Registration

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Email: icpse@uaar.edu.pk, rahmatullahq@uaar.edu.pk



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REGISTRATION FORM

First name: _____ Last name: _____

Designation: _____

Organization: _____

Address: _____

Contact No.: _____ E-mail: _____

Registration Fees: Rs. _____ Receipt No.: _____

Mode of presentation: Oral ☐ Poster ☐

Title of Paper: _____

Type of participation: Local/ National ☐ Foreign ☐

*Accommodation required Yes ☐ No ☐

Excursion trip to Nathia Gali (Murree) Yes ☐ No ☐

The duly filled registration form and abstract may be submitted to the conference at
<icpse@uair.edu.pk>.

***Accommodation charges shall be borne by the participants.**

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Guest of Honour

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Ex-President, Pakistan Academy of Sciences

Guest of Honour

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Senior Facility Manager
US Embassy, Islamabad

For Further Information & Registration

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Some Glimpses of the Previous International Conference on
Biodiversity and Medicinal Plants:
A Way Forward to Sustainable Development
14-16 December, 2023

Inaugural Ceremony



Inauguration of Expo on Medicinal Plants & Natural Products



Poster Competition



Cultural Night



Closing Ceremony



Excursion Trip to Murree

