

INTERNATIONAL CONFERENCE ON PLANT RESILIENCE IN A CHANGING CLIMATE: FROM MOLECULES TO ECOSYSTEMS



7th-8th September, 2026



University of Kashmir, Srinagar



Organized by

**Plant Molecular Biology Lab
Department of Botany, University of Kashmir**

Sponsored by



Anusandhan
National
Research
Foundation



संरक्षण जयते
Department of Biotechnology



INTRODUCTION

Climate change poses unprecedented challenges to plant survival, productivity, and ecosystem stability, threatening global food security, biodiversity, and environmental sustainability. Rising temperatures, altered precipitation patterns, increasing frequency of extreme weather events, and the emergence of new biotic and abiotic stresses are profoundly affecting plant growth and ecosystem functioning worldwide. Understanding how plants perceive, respond, and adapt to these rapidly changing environmental conditions has therefore become a critical scientific priority. Advances in plant biology, genomics, biotechnology, ecology, and environmental sciences have significantly enhanced our knowledge of the molecular, physiological, biochemical, and ecological mechanisms underlying plant resilience.

The Two-Day International Conference on "Plant Resilience in a Changing Climate: From Molecules to Ecosystems" aims to provide a dynamic platform for researchers, academicians, scientists, industry professionals, policymakers, and students to exchange cutting-edge knowledge, share innovative research findings, and discuss emerging challenges and opportunities in the field. The conference will bring together experts from diverse disciplines to explore recent developments in plant stress biology, climate-smart agriculture, ecosystem restoration, conservation strategies, sustainable crop improvement, and advanced biotechnological interventions for enhancing plant adaptability.

By integrating perspectives across multiple levels of biological organisation—from genes, molecules, and cells to plants, communities, and ecosystems—the conference seeks to foster interdisciplinary collaborations and stimulate innovative solutions for addressing the impacts of climate change on natural and agricultural systems. Special emphasis will be placed on translating fundamental scientific discoveries into practical applications that support sustainable development and environmental resilience.

The conference will feature keynote lectures, invited talks, oral and poster presentations, and interactive discussions led by eminent national and international experts. It is expected to catalyse strengthening research networks, promoting knowledge exchange, and inspiring the next generation of scientists dedicated to advancing plant resilience and ecosystem sustainability in an era of global environmental change.

Event details:

- Designed to serve as a global platform for scientific exchange on emerging research in plant resilience, climate adaptation, and sustainable agriculture.
- Participants will engage with internationally renowned experts, present cutting-edge research, and establish collaborations that bridge molecular discoveries with ecosystem-level applications.

About SPARC

The SPARC fellowship is an Indian Ministry of Education initiative that funds joint two-year research projects between top-100 NIRF-ranked Indian institutions and elite global universities (top 500 QS-ranked). Rather than offering standalone individual grants, it acts as an institutional mobility program that finances international travel and academic exchanges. This allows foreign faculty to teach at Indian campuses and enables Indian PhD students or post-docs to conduct hands-on research in advanced laboratories overseas. Bilateral research teams must apply collaboratively through the official portal, with the ultimate goal of producing joint publications, patents, and translatable technologies.



Who can participate:

The conference will accommodate up to 200 participants and is designed for students, research scholars, faculty members, and scientists affiliated with different institutions. Selection will be granted on a first-come, first-served basis subjected to meeting the eligibility criteria.

UNIVERSITY OF KASHMIR

The University of Kashmir is situated at Hazratbal in Srinagar. It is flanked by the world-famous Dal Lake on its eastern side and Nigeen Lake on the western side. The Main Campus of the University is spread over an area of 247 acres of land, which is divided into three campuses – Hazratbal, Naseem Bagh and Mirza Bagh (the latter serving for residential purposes). There are additional campuses: Zakura, North (Delina), South (Fatehgarh) and Kupwara. Over the years, the University has marched towards excellence in academics, research and public outreach. It has been re-accredited as Grade-A++ by the National Assessment & Accreditation Council (NAAC) of India in the year 2025.

PLANT MOLECULAR BIOLOGY RESEARCH LAB (DEPARTMENT OF BOTANY)

The Plant Molecular Biology Laboratory, Department of Botany, University of Kashmir, is a premier research facility dedicated to advancing fundamental and applied research in plant sciences. The laboratory focuses on unravelling the molecular, physiological, and biochemical mechanisms that regulate plant growth, development, and adaptation to environmental stresses. Its core areas of research include plant molecular biology, transcriptomics, proteomics, metabolomics, metagenomics, and stress physiology, with special emphasis on understanding plant responses to abiotic and biotic stresses under changing climatic conditions. Equipped with modern molecular and analytical tools, the laboratory undertakes cutting-edge research on gene expression profiling, plant-microbe interactions, functional genomics, and climate-resilient crop improvement.

Research activities in the laboratory encompass a diverse range of economically and medicinally important plant species, including *Zea mays* (maize), *Trifolium pratense*, *Solanum lycopersicum* (tomato), *Brassica rapa* var. *oleifera* (oilseed rape), and *Bacopa monnieri* (Brahmi). These plant systems are utilised to investigate stress-responsive molecular networks, physiological adaptations, metabolic regulation, and beneficial plant-microbe interactions under changing environmental conditions. By integrating advanced omics technologies with physiological and biochemical approaches, the laboratory seeks to enhance crop productivity, stress tolerance, and environmental resilience. Through interdisciplinary research, collaborative projects, and the training of young scientists, the laboratory contributes significantly to scientific innovation, sustainable agriculture, biodiversity conservation, and the development of strategies for mitigating the impacts of climate change on plant systems.

ACCOMMODATION

Accommodation will be provided at University Guest house/ International Youth Hostel Zakura Campus/ NIT Srinagar to limited participants on first cum first serve upon request/preference during registration form submission as per rates mentioned below:

Faculty @ ₹1500 | Scholars @ ₹1000 | Students @ ₹500. during the conference days (6-8 September)

However, participants can also work at their own level for accommodation at Hotels/Houseboats that may require advanced booking in view of tourist rush in September with tentative rates mentioned below:

Economy Hotels:

₹ 1,500-25,00/person/night

Deluxe 3-star Hotels/Houseboat:

₹3,000-5,000/person/night

For further details contact: **Rayees Ahmad Rather** +91 6006390073 / **Jasia** +91 9149462067) **Dr.Umer** +91 8899637360

SPEAKERS/GUESTS

INTERNATIONAL

- Prof. Surinder Chopra
- Dr. Neela Yennawar
- Prof. Hemant P. Yennawar
- Dr. Andrija Finka

NATIONAL

- Prof. Sudhir. K. Sopory
- Prof. Ashwani Pareek
- Prof. Shekhar C. Mande
- Prof. V. Chinnusamy

- Dr. Monika Agarwal
- Prof. G. Roymahapatra
- Prof. Rabibrata Mukherjee
- Prof. Prachi Agarwal
- Prof. Manoj Prasad
- Prof. Sudesh K. Yadav
- Prof. Jyotsina Majumdar
- Prof. Shiva Prasad
- Prof. Neeti Sanan-Mishra

IMPORTANT DATES

8th July 2026:

Link open for registration/Abstract submission

31st July 2026:

Last date for Registration /Abstract submission

15th August 2026:

Notification of acceptance of abstracts

REGISTER ONLINE

Interested candidates are requested to complete and submit the registration form available on the conference website.



HELP
DESK



icprcc2026.uok.edu.in



plantresilience@uok.edu.in



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No TA/DA will be provided for participation in the conference. The participants will be served lunch, tea and refreshments during the conference. Those participants who require accommodation during the conference have to bear the University guest house charges on their own.



CHIEF PATRON

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Hon'ble Vice Chancellor, University of Kashmir

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Dean School of Biological Sciences, UoK

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