



AMITY INSTITUTE
OF ORGANIC
AGRICULTURE



AMITY FOOD
AND AGRICULTURE
FOUNDATION



AMITY INSTITUTE OF
HORTICULTURE STUDIES
AND RESEARCH

PRESENTS



2nd INTERNATIONAL
CONFERENCE ON

**RECENT ADVANCES IN
HORTICULTURE RESEARCH**

ICRAHOR 2024
HYBRID MODE



15th-16th Feb, 2024

Amity University Noida (New Delhi NCR), India

OVERVIEW

Amity Institute of Horticulture Studies and Research is all set to announce the 2nd International Conference on Recent Advances in Horticulture Research (ICRAHoR-2024), that is scheduled to be held on 15-16 Feb, 2024, at Amity University Uttar Pradesh, Noida. The conference will be hosted in a hybrid mode.

ABOUT AMITY INSTITUTE OF HORTICULTURE STUDIES AND RESEARCH

With an unparalleled vision and dynamic leadership of our Founder President, Dr. Ashok K. Chauhan, the Amity Institute of Horticulture Studies Research AIHSR, was established in the year 2010. Horticulture is considered the engine of growth as it provides nutrition to the masses.

Horticulture in India contributes about 30 % of Agricultural GDP and its growth is double-digit. The share of horticultural food has increased to more than 50 percent in the food basket of consumers. Therefore, this sector needs more attention from policymakers, research institutions, and the corporate sectors. Currently, to update its students with the industry trends, Amity Institute of Horticulture Studies Research AIHSR, Noida offers various graduate courses as well as Post Graduate courses, in this segment



ABOUT THE CONFERENCE

As the world's population continues to surge, traditional food production is under pressure due to changing climate and dwindling land and water resources. The horticulture sector may promise to ensure better food production via technological interventions to fight against food and nutritional security in developing countries. In addition, technology is paving the way for the future of horticulture in other ways too.

The industry has witnessed new developments in high-tech greenhouse horticulture viz. sensors, energy solutions, covering materials, production technology, and robotics. The potential for digitalization is tremendous. Networked, automated gardens could allow individuals to remotely plan and manage their plots. Machine learning and big data management is pivotal to glean further insights from the plant growth data collected in these controlled environments.

It could be used to optimize light, soil conditions, plant spacing, or other variables that could further speed up the production cycle or help us produce more nutrient-rich food. Such data may shape algorithms and drive further optimization. For suppliers and customers, a reliable and optimized system can ensure planning security.

Climate-smart horticulture, in conjunction with the most up-to-date crop improvement technologies utilizing genome-editing technology, is highly-anticipated and seems to be promising. Nano-emulsions and nano-materials for coating and packaging, Horti-waste valorization techniques, vertical farming, robotic harvesting, 3-D printing, in vitro seed production for vegetatively propagated fruit crops, and other innovations could transform the horticulture sector as a whole.

Thus, this conference shall provide the platform to discuss trends and innovations in the field of Horticulture.



STRUCTURE OF THE CONFERENCE

The event will bring together Scientists, Researchers, Entrepreneurs, Academicians, Nutritionists, Engineers, Horticulturists, Floriculturists, Breeders, Industrialists, Quality Analysts and Technologists from all over the world to discuss the latest technological interventions, sustainable solutions for improving horticultural production, processing, nutritional security, quality and supply chain resilience.

THE CONFERENCE WILL FOCUS ON THE RECENT CHALLENGES AND UPDATES ON THE FOLLOWING THEMES

1. Technological advances in the horticulture sector

2. Role of AI in the horticulture sector

3. Advances in post-harvest management

4. Urban/Backyard farming

5. Horti-entrepreneurship success stories

CALL FOR ABSTRACT SUBMISSION

Researchers, scientists, policy makers, academicians and students are invited to submit an abstract on any conference themes or related a icrahor@amity.edu by 25th Jan 2024.

A committee will review the abstract (POSTER/ ORAL PRESENTATIONS) and the selected abstracts will be published in the conference proceedings having ISBN No.

Selected Papers will be published in SCOPUS-indexed proceedings.

OBJECTIVES

The conference aims to provide a platform for ambitious new actions, innovative solutions and plans to transform the horticulture industry. It is envisioned that the conference will have objectives including:

- **To equip the researchers and students with the latest technology trends being followed in the horticulture sector.**
- **To develop a framework to strengthen food and nutritional security via horticultural products.**
- **To develop a deep insight into the molecular approaches, nanotechnology, and hi-tech horticulture**
- **To acquaint the researchers and students with the latest concepts like vertical farming, robotics, and Big data, for the future.**
- **To motivate research, industry and academia to carry one challenging and innovative research and start-up programs in the horticulture sector.**

ABSTRACT SUBMISSION GUIDELINES

Please read the submission rules before submitting an abstract.

1. The presenting author is required to ensure that all co-authors are aware of the content of the abstract before submission.
2. The presenting author must be listed as the first author.
3. Submitted abstracts should include non-published data.
4. Abstracts previously presented will not be accepted.
5. Please submit symbols as words.
6. You may submit more than 1 abstract. However, presenters that are accepted for oral presentation will be permitted to give only 1 oral presentation. Additionally accepted abstracts will therefore be poster only.
7. Please note the submitting author will receive all correspondence about the abstract so we advise that the submitting author's details that are entered are the same details as those of the presenting author.
8. Your abstract is not successfully submitted until you receive a confirmation e-mail after clicking the final submit button. If you do not receive a confirmation e-mail, please contact us.
9. Abstract layout – Abstracts must be submitted with the following sections
 - 9a. *Abstract Topic* – abstracts must be allocated to a specific Theme.
 - 9b. *Affiliation details: department, institution / hospital, city, state (if relevant), country*
 - 9c. *Abstract title* – limited to 20 words in UPPER CASE
 - 9d. *Abstract title is followed by Author names and their affiliations (Department name/ Institute name/ University name/ Place/ State) and a corresponding author email address.*
 - 9e. *Author name: Last name Initials1, Last name Initials2, and Last name Initials3.*
 - 9f. *Abstract text* – limited to 250 words; Times New Roman; 12 font size.
 - 9g. *Keywords: 5 –6*
10. Abstract must not contain any data, figure or table.
11. Presenting author's contact details (should be the same details as the submitting author so that the presenting author receives the correspondence about the abstract:
 - Email address
 - Full postal address
 - Contact number
 - Full first and family name(s)

FULL-LENGTH PAPER GUIDELINES

1. Aim and scope: The articles related to the themes proposed in ICRAHOR-2024 will only be considered. Both research and review articles are welcome. The article must fall into the aim and scope of ICRAHOR-2024.
2. The articles submitted for publication in the Journal should contain data not older than 3 years on the date of their receipt.
3. Articles should be suitably divided into the following sub-sections: TITLE, AFFILIATION, ABSTRACT, KEYWORDS, INTRODUCTION, MATERIALS AND METHODS, RESULTS AND DISCUSSION, CONCLUSION, and REFERENCES. Tables and figures should be appended at the end of the text.
4. The article must be in Times New Roman, 12 font size, and double spaced.
5. The maximum word limit for a research article is 3000 words and for a review, the article is 5000 words excluding references, abstract, and tables.
6. The sections and subsections must be numbered i.e. 1, 1.1, 1.1.1, 2, 2.1, 2.1.1..... etc.
7. If the article is found suitable as per the journal standards, the author will have to modify it according to the Scopus indexed journal's guidelines. Later on, the peer review process will be carried out by the journal for quality assurance.

PROGRAM SCHEDULE:

DAY 1:

Date: 15th February 2024
Time: 11:00 AM- 5:00PM
Registration: 11:00 AM -12:00 PM

Inaugural Session

Time: 12:00 PM to 1:00 PM
LUNCH BREAK: 1:00 PM-2:00PM

Session 1:

Technological advances in the horticulture sector
Time: 2:00 PM to 3:30 PM

Session 2:

Role of AI in the horticulture sector
Time: 3:30- 5:00 PM

DAY 2:

Date: 16th February 2024
Time: 10:00 AM- 5:00 PM

Session 3:

Advances in post-harvest management
Time: 10:00 AM to 11:30AM

Session4: Urban/Backyard farming

Time: 11:30 AM- 1:00 PM LUNCH
BREAK Timing: 1:00-2:00 PM

Session5: Horti-entrepreneurship success stories

Time: 2:00-3:30 PM
HIGH TEA: 3:30 PM- 4:00 PM
Award distribution & Valedictory session
Time: 4:00 PM- 5:00 PM

PATRONS



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Dr. Ashok K. Chauhan
Founder President,
Ritnand Balved Education
Foundation (The Foundation of
Amity Institutions and the
sponsoring body of Amity
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REGISTRATION FEE

International Research Scholar & Students USD	50
International Academicians/Scientists USD	70
Industry Professionals	Rs. 1500/-
Academicians/Scientists/ Faculties	Rs. 1000/-
Research Scholar & Students (With paper presentation)	Rs. 800/-
External Research Scholar & Students (without paper presentation)	Rs. 700/-
Amity Research Scholar & Students (without paper presentation)	Rs. 500/-

Registration Url: <https://amity.edu/nspg/ICRAHOR2024>

SPONSORSHIP OPPORTUNITIES

Gold Sponsorship Rs. 2,00,000

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Silver Sponsorship Rs. 1,00,000

Complimentary registration of 1 delegate

Full page black and white advertisement in souvenir/proceedings

Bronze Sponsorship Rs. 50,000

Complimentary registration of 1 delegate



IMPORTANT DATES

Abstract Submission: 25th Jan' 2024

Abstract acceptance last date: 30th Jan'2024

Registration last date: 14th Feb'2024

Full-length paper submission last date: 30th Apr'2024

OVERVIEW

Amity University, a leading research & innovation driven university, has been ranked among the top 3% universities by QS and Times Higher Education, UK (the world's leading university rankings organisations).

The university is also Asia's only not-for-profit university to be awarded US Regional Accreditation by WASC, USA and QAA, UK - setting a new standard of academic excellence in India. Amity has been ranked among the top universities globally for producing the most employable graduates in a survey conducted among 9,000 employers worldwide by Times Higher Education, UK. Amity University is the flagship institution of Amity Education Group, established over 2 decades ago. Today, Amity has over 175,000 brilliant students across Pre-nursery to Ph.D. levels, pursuing more than 400 Programs in 90 diverse disciplines, ranging from Management to Psychology, besides future focused

areas like Renewable Energy, Nuclear Science and Nanotechnology.

The Group is driven by its vision of building a Global Knowledge Network, providing globally benchmarked education. Today, the Group comprises 11 Universities, 28 schools and 16 international campuses across London, Singapore, Dubai, New York, San Francisco, Amsterdam, Mauritius, Abu Dhabi, Sharjah, Tashkent, South Africa, besides India.

Amity's relentless pursuit of excellence is reflected in its steadfast commitment and contribution towards cutting-edge research and innovation. For instance, Amity in the last four years has filed over 1,700 patents. It is also engaged in conducting over 400 hi-end Government-funded as well as international research projects including those funded by Bill & Melinda Gates Foundation, USAID, and Leverhulme Trust, UK.

With an aim to provide an impetus to research & innovation in the field of food and agriculture, Amity Food and Agriculture Foundation (AFAF) was founded by Dr. Ashok K. Chauhan, Founder President, Amity Education Group envisages to establish itself as one of the premier educational institutions in the promotion of agricultural sciences and related technologies. Agriculture is one of the largest sectors in India with more than half of the population engaged in the agriculture-related occupation. Amity envisions supporting Indian farmers especially the marginal and smallholders through research, training and academic endeavors at various stages of production beginning from selection of seeds, fertilizers/biofertilizers, irrigation, preparation of farmland, integrated pest management, integrated nutrient management, harvesting, post-harvest management, use of simple machinery to remove drudgery, transportation, processing and allied areas.



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