



National Symposium on **Hybrid Technology for Enhancing Crop Productivity (NSHT)**

Venue:
AP Shinde Symposium Hall
NASC, New Delhi
8-10 January 2025



Organizers

Trust for Advancement of Agricultural Sciences (TAAS), New Delhi
Indian Council of Agricultural Research (ICAR), New Delhi
International Crop Research Institute for Semi-Arid Tropics (ICRISAT), Patancheru
International Maize and Wheat Improvement Centre (CIMMYT), Mexico
International Rice Research Institute (IRRI), Philippines
Indian Society of Plant Genetic Resources (ISPGR)



About the National Symposium

Food insecurity concerns have lately been rising on account of economic inequality, poverty, climate change, economic slowdown and political conflicts. The shocks of COVID-19 and Russia-Ukraine and Israel-Palestine war have further intensified these concerns by disrupting the global food supply chain. These developments are having implications on achieving sustainable development goals (SDG), especially to reduce poverty and ending hunger, including all forms of malnutrition by 2030. According to the Food and Agricultural Organization of the United Nations (FAO), the global population is estimated to reach around 8.55 billion by the end of 2030. Further, the food and nutritional needs globally are diversifying in view of economic development and changing food habits. This would require greater emphasis on improving productivity and production of diversified foods with better nutritional quality.

Among possible options, hybrid technology provides opportunities to enhance yield, nutritional quality, resistance/tolerance to biotic/abiotic stresses, as well as better adaptation to climate change etc. Further, through the deployment of marker-assisted selection, genetic engineering, genome editing, precise phenotyping, doubled haploid (DH) technology etc., we have an option to address our future food and nutritional needs to a greater extent. However, the potential of hybrid technology is yet to be harnessed in foodgrain crops and vegetables where area under hybrids is varying considerably. It is almost 12 mha (94%) in cotton, 5.6 mha (60%) in maize, 0.46 mha (78%) in sunflower, 2.84 mha (40%) in pearl millet, 1.5 mha (28%) in sorghum. This reflects that there is considerable opportunity to harness the potential of

hybrid technology by adopting a well-planned R & D strategy at the national level.

Hybrid technology in crops offers an opportunity to increase productivity by 15-20 per cent over the varieties. To expand the adoption of hybrid cultivars in crops, a 3-day **"National Symposium on Hybrid Technology for Enhanced Crop Productivity"** will be organized by the Trust for Advancement of Agricultural Sciences (TAAS) in collaboration with Indian Council of Agricultural Research (ICAR) and CGIAR Institutes, namely, International Crop Research Institute for the Semi-Arid Tropics (ICRISAT), and International Maize and Wheat Improvement Centre (CIMMYT), International Rice Research Institute (IRRI), Indian Society of Plant Genetic Resources (ISPGR) in partnership with Federation of Seed Industry of India (FSII); Maharashtra Hybrid Seed Company Ltd. (MAHYCO); Rasi Seeds, and Buyer Crop Science Ltd., at the AP Sinde Symposium Hall, National Agriculture Science Complex (NASC), Pusa Campus, New Delhi, from **8-10 January 2025**. Around 300 stakeholders including researchers, policymakers, representative of CG centers and private sector are expected to participate. The aim of the Symposium is to discuss and suggest a way forward for scaling hybrid technology in crops, mainly rice, maize, cotton, pearl millet, sorghum, sunflower, pigeon pea, castor and some selected vegetable crops.

Objectives

- ❖ To understand the current status of hybrid research in various crops
- ❖ To discuss current scientific and policy constraints in scaling hybrid breeding and seed production for increased productivity
- ❖ To foster closer public-private partnership for promoting hybrid breeding and seed production
- ❖ To develop strategies and 'Way Forward' for accelerating adoption of hybrid technology on a large scale in the national interest



Call for Abstracts

The Organizing Committee invites the participants to contribute papers for **Rapid Oral** and **Poster presentation**. The Abstract not exceeding 300 words should have a title followed by the name of the author(s), affiliation and e-mail address of the corresponding author. It should contain a brief Introduction, Materials and Methods, Results and Discussion; and be in font—Times New Roman; size 12. Name of the presenting author must be underlined.

Each Technical session will have 2 or 3 **Rapid Oral Presentations**; will be selected by a Committee from the abstracts submitted by due date. **Posters** should be brief, self-explanatory and informative. Fonts of the poster should be readable from a distance of at least 1 meter. Size of the poster should fit well in poster panel of 90 cm x 120 cm (width and height).

The Abstracts may be submitted to email ID: nsht2024@gmail.com on or before **30 November 2024**. Acceptance will be communicated to the presenting author by **12 December 2024**.

The Abstracts are invited for Poster and **Rapid Oral** and **Poster presentations**. There will be separate "Poster Sessions" for each technical session to encourage wider interaction and sharing of the information. Best Rapid Oral and Best Poster presentation in each session will receive award. Attendance certificate from organizers will be issued upon request of the participants.

Registration

Registration form (https://docs.google.com/forms/d/1iBENJgBVUr9PZBU3uKQtf2u_4l2rNZeOj4hQSWTDKmk/edit) and registration fee should be paid either through demand draft or NEFT in favour of the Trust for Advancement of Agricultural Sciences (TAAS), New Delhi, as per the following account details:



Name of the Bank & Branch: **Canara Bank, IARI, Pusa, New Delhi**

Account No.: **90292140000343**
IFSC – CNRB0019029

Registration Fee

Categories	Registration Fee (₹)	After Due Date or On-Spot Registration (₹)
Participants	6,000	8,000
Students/Research Fellows	3,000	4,000
Industry and Private Organizations	8,000	10,000

* The accompanying person who wishes to attend the symposium has to pay extra ₹ 3,000

The registration fee for the participants will cover participation in all scientific sessions, a copy of the proceedings, and other soft and printed material concerning the Symposium, registration kit, welcome dinner, lunch, and tea/coffee. Students/Research Fellows need to attach the certificate from the Heads/Supervisors of their respective institutions.

Note: E-Certificate will be issued to the registered participants only

Participants have to make their own arrangements for accommodation

Thematic Sessions

Session I: Hybrid Crop Research and Development – An Overview

Session II: Germplasm Management for Hybrid Crop Breeding

Session III: Biotechnology for Accelerating Hybrid Crop Breeding

Session IV: Current Status and Future Prospects in Hybrid Crop Breeding I (Food and Fiber Crops)

Session V: Current Status and Future Prospects in Hybrid Crop Breeding I (Horticultural Crops)

Session VI: Strategies for Hybrid Seed Production and Management

Session VII: Panel Discussion on Way Forward

Two evening lectures by the eminent scientists will be delivered on 8 and 9 January 2025.

Important Dates

Call for Abstracts open	:	10 September 2024
Last Date for Abstract Submission	:	30 November 2024
Acceptance of Abstracts	:	12 December 2024
Registration Opens	:	15 September 2024
Early Bird Registration	:	31 December 2024

Sponsorship Opportunity — Diamond, Gold and Silver

There is an opportunity to give advertisements in the Abstract Book of the Conference, which will contain messages from VIPs and articles from renowned scientists from India and Abroad. Interested companies may contact TAAS Secretariat (taas.iari@gmail.com) for giving their advertisements. Details of sponsors will also be displayed on the backdrops during the Symposium and included in the proceedings of the Symposium.

Diamond Sponsorship (₹ 5 Lakhs)

- Name/logo of sponsor to be displayed at prominent places including backdrop of the dais/website
- Presentation opportunity during the workshop.
- Advertisement in souvenir abstract book (full page colour, cover/special insertion)
- Exemption of Registration Fee for three participants

Gold Sponsorship (₹ 3 Lakhs)

- Name/logo of sponsor to be displayed at prominent places including backdrop of the dais/website
- Presentation opportunity during the workshop.
- Advertisement in souvenir abstract book (full page colour)
- Exemption of Registration Fee for two participants

Silver Sponsorship (₹ 2 lakhs)

Name/logo of sponsor to be displayed at prominent places including back drop of the dais/website

Advertisement in souvenir abstract book (full page colour)

Exemption of Registration Fee for one participant

Venue

The venue will be the **AP Shinde Symposium Hall**, National Agricultural Science Centre (NASC), Pusa Campus, New Delhi.



Weather

The weather in Delhi during December is expected to be cold; for a typical day average temperature ranging from a high 20°C to low 9°C. The participants are requested to have the warm woolen clothes.

Accommodation

Limited accommodation is available at the NASC Guest House and other Guest Houses at Pusa Campus, New Delhi. There are several hotels located nearby in Patel Nagar at reasonable rates. Participants other than invited speakers and co-chairs, are advised to make their own arrangements for accommodation.



National Symposium on
Hybrid Technology for Enhancing Crop Productivity (NSHT)
(8-10 January 2025)

(Please mail the filled registration form to: nsht2024@gmail.com)

Name: Prof/Dr/Mr/Ms:

Designation:

Gender: Male: Female: Other:

Institute/University:

Address:

Mobile No.:

E-mail ID:

Alternate E-mail ID:

Accompanying Person/Spouse*: Number: Name(s):

(*An additional amount of ₹ 3,000 per person should be sent for accompanying person)

Title of the abstract:

Session:

Mode of paper presentation: Oral Poster

**Mode of Registration Fee Payment:

NEFT Transaction ID (UTR No.):

Multicity Cheque No./Demand Draft No. (Payable at Delhi):

Date: Name of Bank:

Amount (₹):



Account Holder: **Trust for Advancement of Agricultural Sciences (TAAS)**

Name of the Bank & Branch: **Canara Bank, IARI, Pusa, New Delhi**

Account No.: **90292140000343; IFSC – CNRB0019029**

** Note: Please add your full name and NSHT in the comment box while making online payment; send the copy of proof regarding online payment of registration fee in favour of Trust for Advancement of Agricultural Sciences (TAAS) payable at New Delhi

Date: _____

(Signature of the participant)

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Dr HD Upadhyay

Former Director, Genebank,
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Dr BM Prasanna

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CIMMYT, Kenya



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Progress Through Science

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