



**Golden Jubilee Year 2021**  
**Tamil Nadu Agricultural University**  
**Coimbatore**

*International conference on*  
**“Future challenges and prospects  
in Plant Breeding”**

*6-7<sup>th</sup> October 2021*



*Organized by*  
**Centre for Plant Breeding and Genetics**  
**Tamil Nadu Agricultural University, Coimbatore - 641 003**  
**&**  
**Indian Society of Plant Breeders (ISPB)**  
**Tamil Nadu Agricultural University, Coimbatore - 641 003**

## **Background**

The rediscovery of Mendel's work on plant genetics in the early 1900s and the subsequent development of scientific plant breeding based on those principles have laid out a very remarkable contribution in improving the crop varieties. The collection and utilization of valuable germplasm around the world and the adoption of new breeding systems had a significant effect on the global food supply. The development of high yielding varieties responsive to high input agriculture during 1960s was a major step forward which helped many countries to achieve self-sufficiency in food grain production. Nevertheless, the plant breeding fraternity is now facing a number of challenges namely, increasing population, malnutrition, gradual decline in land, labour and water resources, evolution of new pests and diseases, environmental degradation and effects of global warming which puts the food security at greater risk. Under such scenario, sustained improvement in the genetic yield potential of crop plants is the need of the hour with the concerted multi-disciplinary efforts using modern plant breeding approaches. Recent advancements in molecular marker and genome sequencing technologies have enormous potential to augment crop breeding to meet the growing demands. To deliberate and discuss the emerging challenges and prospects of recent innovations in plant breeding research, an International conference on "Future challenges and prospects in Plant Breeding" is being organized by Centre for Plant Breeding and Genetics in collaboration with Indian Society of Plant Breeders at Tamil Nadu Agricultural University, Coimbatore during 6-7<sup>th</sup> October 2021. This conference is expected to provide a common platform for the researchers to review, update and integrate novel ideas in crop improvement with the broader vision and perspectives.

## **Thematic areas**

The conference will be conducted through hybrid mode (online & offline) with invited talks from the experts around the world and will focus on the following thematic areas:

1. Utilization of plant genetic resources for food, feed and nutritional security
2. Climate resilient breeding crops for biotic and abiotic stress management
3. Breeding strategies for bio-fortification in crops
4. Innovative breeding approaches for enhancing yield and quality
5. Genetic improvement of crops for nutrient use efficiency
6. Genetic improvement of plant types for farm mechanization
7. Molecular breeding approaches for accelerated cultivar development
8. Public and private partnership in plant breeding

## **Tamil Nadu Agricultural University**

The Tamil Nadu Agricultural University (TNAU), Coimbatore established in 1971 had its genesis as an Agricultural School at Saidapet, Madras, as early in 1868. The vision of TNAU is to promote science based agriculture and allied processes in the State of Tamil Nadu to help the farmers and agro-based industries to compete successfully in the national and international markets through its education, research and out-reach programmes. In line with global

technological development, presently 10 UG degree programs are being offered at 15 constituent colleges spread over Tamil Nadu. It was recognized as a Post-graduate Centre in 1968 leading to 33 Masters and 29 Doctoral degrees programs. Apart from these academic institutes, the University now has research programs at more than 38 stations and 14 Krishi Vigyan Kendra spread with more than 1200 scientists and teaching faculty. To enhance food security and to improve standard of living of farming community, TNAU has developed more than 850 varieties in a wide array of crops, 1,500 production technologies and 166 farm implements and machineries which are widely popular among the farming community. Recognizing its immense contribution to research, education and extension in 2019, Tamil Nadu Agricultural University has been ranked 8<sup>th</sup> in overall and 5<sup>th</sup> among the State Agricultural Universities in India by ICAR, New Delhi. TNAU is taking up many collaborative breeding research projects with International Institutes viz., IRRI, CIMMYT, ICRISAT, BARC and many other CGIAR institutes.

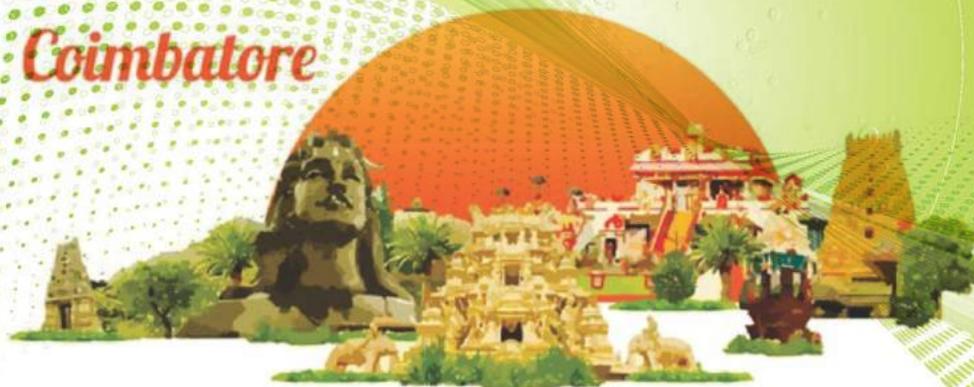
Indian Society of Plant Breeders was started during the year 1995 with the objective to promote the general advancement of plant breeding and facilitate the exchange of information amongst plant breeders and provide opportunities for its members to establish a firm link between plant breeders in India and abroad. Under this society four national plant breeding conferences and one national seminar along with ISGPB were organised. This society is enrolled with 800 life members from national and international Institutes.



## Coimbatore

Coimbatore, popularly known as the "**Manchester of South India**", is a city in the south Indian state of Tamil Nadu. It's a major hub for industry and manufacturing along with several tourist destinations in South India. From ancient temples (Maruthamalai Murugan and Perur Pateeswarar temple) to jaw-dropping waterfalls (Siruvani, Kovai Kutralam and Vydehi Falls).

# Coimbatore



Coimbatore is home to a massive 112 feet tall statue of Lord Shiva, known as the Adiyogi Shiva Statue (*Isha Yoga Centre*) which is featured in the Guinness Book of World Records. This architectural masterpiece is a very popular tourist spot. Coimbatore has everything you could possibly need to make for a perfect holiday experience. Coimbatore enjoys a salubrious climate throughout the year and the weather during October will be very pleasant (Max. Temp. 30°C; Min. Temp. 22°C; RH 66%).

## Reaching TNAU Coimbatore

Coimbatore is in the western part of Tamil Nadu. Coimbatore is well connected by road, rail and air with all the major cities of India. TNAU is about 15 km from Coimbatore International Airport, 5 km from Coimbatore Railway Station and 5 km from Gandhipuram Central Bus stand. Taxi and auto-rickshaws are readily available on hire from each disembarking point to TNAU.

## Organizers

### Chief Patron

Dr. N. Kumar

Vice-chancellor, TNAU, Coimbatore

### Convenor & Organizing secretary

Dr. S. Geetha

Director, Centre for Plant Breeding and Genetics  
TNAU, Coimbatore

### Co Convenors

Dr.S.Rajeswari, P&H (Cotton) & Secretary, ISPB

Dr.P.Jayamani, Professor & Editor, EJPB

Dr.S.Manonmani, P&H (PGR), CPBG

Dr.N.Manivannan, Professor, CPBG

Dr.K.Anandhi, Asst. Prof and Treasurer, ISPB



### **International Advisory Committee**

- Dr.B.M.Prasanna, Director, CIMMYT, Mexico  
Dr.S.Krishnaraj, Director General, Service & Prog. Excellence, AAFC, Canada  
Dr.R.K.Singh, Section Head, Program Leader, ICBA, Dubai, UAE  
Dr.Rajeev K Varshney, Research Program Director, ICRISAT, Hyderabad  
Dr.S.Jauhar Ali, IRRI, Philippines  
Dr.N.P.V.R Ganga Rao, Principal Scientist , ICRISAT, Kenya

### **National Advisory Committee**

- Dr.A.Vishnuvardhan Reddy, Vice Chancellor, ANGRAU, Guntur, A.P  
Dr.H.K.Chaudhary, Vice Chancellor, CSKHPKV, Palampur  
Dr.D.K.Yadava, ADG (Seed), ICAR, New Delhi  
Dr.Sanjeev Gupta, ADG (Oilseeds & Pulses), ICAR, New Delhi  
Dr.M.Rangasamy, Former Director (CPBG), TNAU, Coimbatore  
Dr.S.R.Sree Rangasamy, Former Director (CPBG), TNAU, Coimbatore  
Dr.N.Nadarajan, Former Director, IIPR, Kanpur  
Dr.A.K.Singh, Director, Indian Agricultural Research Institute, New Delhi  
Dr.Kuldeep Singh, Director, NBPGR, New Delhi  
Dr.Sujay Rakshit, Director, ICAR- IIMR, Ludhiana  
Dr.R.Meenakshi Sundaram, Director, IIRR, Hyderabad  
Dr.N.K.Singh, National Professor, NRCB, New Delhi  
Dr.Ch.V.Durga Rani, Director, Institute of Biotechnology, PJTSAU, Telangana  
Dr.M.P.Rajanna, Special Officer, College of Agriculture, UAS, Karnataka  
Dr.A.K.Roy, Project Coordinator (AICRP on FC & U), IGFRI, Jhansi  
Dr.Indra Prakash Singh, Project Coordinator (Pigeonpea) IIPR, Kanpur  
Dr.C.Tara Satyavathi, Project Coordinator AICRP on Pearl Millet, Jodhpur  
Dr.A.H.Prakash, Project Coordinator (AICRP on Cotton)&Head, CICR, Regional Station, Coimbatore  
Dr.S.Thirumeni, Professor (PBG), PAJANCOA&RI, Karaikal  
Dr.G.Hemaprabha, Principal Scientist & Head, Crop Improvement, SBI, Coimbatore  
Dr.M.Sivaswamy, Principal Scientist & Head, Regional Station, Wellington (Nilgiris)  
Dr.A.J.Prabakaran, Principal Scientist, Sugarcane Breeding Institute, Coimbatore  
Dr.S.Manickam, Principal Scientist, CICR, Regional Station, Coimbatore  
Dr.C.Aruna, Principal Scientist, Indian Institute of Millets Research, Hyderabad  
Dr.S.K.Bera, Principal Scientist, ICAR-Directorate of Groundnut Research, Junagadh  
Dr.A.L.Rathnakumar, Principal Scientist, IIOR, Hyderabad  
Dr.Jiji Joseph, Prof and Head (PBG), KAU, Kerala

### Call for abstracts

Abstract of the research works related to the thematic areas of the conference is invited for oral and poster presentations. The abstracts for the poster should be prepared as per the guidelines specified in this brochure. The abstract should be submitted through web site <https://sites.google.com/tnau.ac.in/fcppb2021> latest by 30.06.2021. Authors are requested to specify the relevant theme in which their abstract needs to be considered. The Editorial Committee will scrutinize and select the abstracts for inclusion in the e-Book of Abstracts, for which the first author should register for the Conference. *Extended summaries will be published as a Proceeding book with ISBN.*

### Conference awards

Abstracts under each thematic area will be selected by the experts committee for oral presentation. Best oral and poster presentations will be selected by a panel of judges for awards in each theme. All the registered participants will be provided with e-certificates.

### Registration Fee

Category	Registration fees	
	Online (Rs.)	Onsite (Rs.)
Student/SRF/RA	750	3000
ISPB members	1500	5000
Non-ISPB members	2000	6000
Accompanying person	-	6000

### Important dates

Registration opens	01.05.2021
Last date for registration	30.06.2021
Abstract submission opens	01.05.2021
Abstract submission closes	30.06.2021



## Guidelines for abstract preparation

The abstract should be simple, comprehensive and be completed within 250 words. It should contain Title, Name, Affiliation and Addresses of all the authors, E-mail address of the corresponding author and the main text. Text should be typed in single spaced in Times New Roman font. Size of the font for different heads should be as follows: Title: 14-point bold; Names of authors: 12-point bold; Affiliation (Name of the Institute/ University/Organization): 11-point; Address: 10-point, Main text: 12-point, The name of the presenting author should be underlined and the name of the corresponding author to be indicated with an asterisk (\*).

**Important: The file name of the abstract should have name of the corresponding author (Eg: Ashok\_Evaluation of rice.doc)**

## Oral Presentation

Each technical session will have lead/invited and contributory oral presentations. Paper(s) for oral presentation will be selected among the abstracts.

## Poster Presentation

The poster session for each thematic area will be conducted only *in virtual mode*. Upon notification of selection of abstract in poster category, the participants should prepare the poster as per the *template* given as a single power point slide and send the poster to the Organizing secretary through e-mail. The session moderator will present the posters during each session. During the poster session, the participants are required to remain connected online to take queries, if any.

## Registration

Registration fee can be paid through Online payment mode from ISPB web site: <https://sites.google.com/tnau.ac.in/fcppb2021>

After the payment of fees, submit the abstract through the Registration Form on the url: <https://sites.google.com/tnau.ac.in/fcppb2021> on or before 30.06.2021.

## Accommodation

Accommodation for the delegates will be available in nearby hotels in advance booking on payment basis. Organizers will facilitate booking of accommodation, if contacted in advance.

## Post conference tour

Post Conference tour will be organized for the interested delegates on payment basis to the nearby fields and tourist places.



**Contact Details**

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