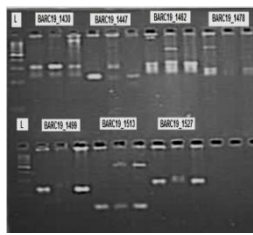
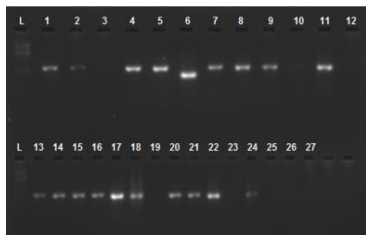


**Short Term Training Course on
“Conventional and Molecular Breeding
Approaches for Increasing Soybean
Productivity under Changing Climatic
Situations in India”
(16th – 25th January, 2018)**



Organised by
ICAR-Indian Institute of Soybean Research
(ICAR-IISR)
Khandwa Road, Indore-452001 (MP) INDIA

Sponsored by
Indian Council of Agricultural Research,
Ministry of Agriculture & Farmers Welfare
Govt. of India

About Institute

The institute aims at exploring the avenues for overall growth of soybean as a crop. Indian vegetable oil economy is fifth largest in the world. After cereals, oilseeds are the second largest agricultural commodity, accounting for the 14% of the gross cropped area in the country. However, the country is meeting its edible oil demand by importing almost 50% of its requirement (Rs 64 thousand Crores). The per capita consumption of the vegetable oil is increasing very rapidly due to increase in population and improved economic status of the population. The demand has increased to about 12.6 kg/ha compared to 4 kg/year in 1961 and the projected demand for the year 2020 and 2050 is 16.44 and 19.16 kg/year, respectively. To meet this demand, the country will require nearly 25.26 and 35.90 million tons of edible oil. In this scenario, soybean has played and will play pivotal role in future. ICAR-IISR Indore with its 22 main and sub-centers and 11 need based testing centers, spread across India, has played a vital role in development of 125 soybean varieties for various agroclimatic zones.



Mandate of the Institute

- Basic, strategic and adaptive research on soybean for improving productivity and quality.
- Provide access to information, knowledge and genetic material to develop improved technology and enhance soybean production.
- Coordination of applied research to develop location specific varieties and technologies.
- Dissemination of technology and capacity building.

PATRON

Dr V S Bhatia, Director
ICAR-Indian Institute of Soybean Research

COURSE DIRECTOR

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COURSE COORDINATOR

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Khandwa Road, Indore -452001(MP)

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About training

Although India ranks fourth in area and fifth in production in the world but it contributes only 4% to the world soybean production, indicating poor yield of the crop in India (1.1 t/ha) as compared to other countries (world average 2.6 t/ha). The current level of productivity has increased 4 times since 1970's when only indigenous land races and varieties were grown. A number of crop improvement advances like whole genome sequencing, availability of SNP markers and Panels, identification and characterization of major genes and QTLs, identification of germplasm resources for biotic and abiotic stresses, development of specialty soybean with null KTI, null lipoxygenase, high oleic acid, vegetable soybean etc have paved the way for further genetic improvement of soybean in India. ICAR-Indian Institute of Soybean Research with its co-coordinating centres is instrumental in augmenting the soybean genetic improvement in the country. The present training has been designed for soybean workers for providing them the knowledge on recent genetic advances in soybean. This training aims to introduce the participants to the emerging field of molecular as well as conventional breeding.

Objectives

- To acquaint participants with the recent advances in conventional and molecular soybean breeding.
- To provide an opportunity to soybean researchers for the exchange of ideas with a view to develop understanding of each other's achievements and problems.
- To provide hands on training on various conventional and molecular soybean breeding techniques.
- To promote inter-institutional linkages.

Course Content

The course would broadly cover the following topics:

- Soybean germplasm resources in India and abroad.
- Pre-breeding strategies in soybean.
- Strategies for developing abiotic (drought, heat, waterlogging) stress tolerant soybean.
- Strategies for developing soybean with resistance to major diseases like YMV, Rust, Charcoal rot.
- Strategies for increasing soybean yield and oil content.
- Use of photoperiodic (photoinsensitivity, long juvenility) and growth habit responses for developing soybean with wider adaptability.
- Use of molecular markers for soybean genetic improvement.
- Development of mapping populations in soybean.
- Conventional and molecular approaches for improving soybean quality.
- DUS testing and PPVFRA rules with reference to soybean.
- Practical on: soybean crossing, DNA isolation, PCR amplification, electrophoresis, visualization of polymorphism, scoring gel data and its interpretation.

Eligibility

Active researchers / teachers not below the rank of Assistant Professor or equivalent from SAUs/ CUs/ DUs/ ICAR/ National Institutes/ KVKs, having minimum two years of experience, in the disciplines of Plant Breeding, Genetics, Botany and allied Sciences are eligible to apply. A total of 25 candidates will be selected for this course. The selection of the candidates will be made by a Screening Committee as per the available guidelines of the ICAR. Preference would be given to the candidates working in the area of soybean genetic improvement.

How to apply

Nomination for the training should be sent online through CBP portal site (<http://cbp.icar.gov.in/>). The hard copy of successfully submitted online application along with a postal order/ DD of Rs. 50/- (Non-refundable) must be sent to the Course Director, after approval of the competent authority of the participant. The demand draft should be drawn in favour of ICAR Unit, IISR payable at Indore.

For applying through Capacity Building Programme (CBP) portal, following procedure may be adopted:

- Visit the website <http://www.iasri.res.in/cbp> or click on Capacity Building Programme link under <http://www.icar.org.in>
- Login using your user ID and password or to create ID use "Create New Account" link.
- After login, click on "Participate in Training" link and fill the Performa.
- Take a printout of the application and get it approved by the competent authority of the institute /SAU.
- Upload the scanned copy of the application through the above portal.
- Send duly signed copy through channel to the Course Director of the training programme.

The last date for receiving nomination is December 31, 2017.

Boarding and Lodging

Boarding and lodging will be provided to the participants during the training period at the IISR guest house and hotel on sharing basis. Travel allowance to the participants will be paid as per their entitlement for the class of travel, restricted to the maximum of AC II tier fare by the shortest route. Participants are required to produce receipts/ tickets in support of their claim.

Applications may be sent to:

Dr Sanjay Gupta
Principal Scientist & I/c,
Crop Improvement
ICAR-IISR, Khandwa Road, Indore (MP) – 452001
Mobile no:7415105890
Email: sanitaishu@gmail.com

Important Dates:

- Last date for receipt of application : December 31, 2017
- Intimation of selection of candidates : January 5, 2018
- Last date for confirmation from participants : January 10, 2018

How to Reach

The venue of the training programme is Indian Institute of Soybean Research. The institute is situated on Khandwa Road Near Crystal IT Park. Institute is 7 and 14 KM away from Indore railway station and airport, respectively.

Weather of Indore:

The weather of Indore in the month of January is slightly cool. The temperature ranges from 15-22°C (day) and 10-15°C (night).

Short Course Training Programme on: Conventional and Molecular Breeding Approaches for Increasing Soybean Productivity under Changing Climatic Situations in India (16th – 25th January, 2018)

Application Format

1.	Name (in block letters)	:	
2.	Designation/ Scale of Pay	:	
3.	Present employer address	:	
4.	Address to which reply should be sent (in block letters)	:	
5.	Permanent address and with e-mail	:	
6.	Date of birth	:	
7.	Sex	:	
8.	Teaching/research/professional experience (mention post held) during last 5 years and number of publication		
9.	Marital status	:	
10.	Mention if you have participated in any research seminar/winter/short courses etc, during last five (5) year under ICAR/ Other organizations		
11.	Draft /postal order for Rs. 50/- (in favour of Director to Training Institute) towards registration (non refundable), if applicable Bank: _____ Postal order no. _____ Dated: _____		
12.	Educational Qualifications	:	
	Examination Passed	Subjects	Year of Passing University / Institute
	Ph. D.		
	M. Sc.		
	B. Sc.		
13.	Whether working in soybean or not	:	

Signature of the applicant

Date:

Place:

15. Recommendation of forwarding Institute

Signature
Address:

Designation:
Date:

Certificate

Certified that the information furnished by the applicant is found to be correct.

Signature and designation of the sponsoring authority