

Hisar: It is located 165 Km from Delhi, 320 Km from Jaipur. It is connected from Delhi by train as well as bus. The buses ply between interstate bus terminus (ISBT) New Delhi and Hisar. There are two trains from Delhi viz., Haryana Express (leaves New Delhi Railway station at 6:00PM) and Kisan Express (leaves Old Delhi railway state at 3:00PM).

Duration: May 19th to June 9th, 2009

Course Fees: Participants are requested to pay a sum of Rs. 5000/- (Rs five thousand only) as registration fee. The registration fee shall be deposited in cash at the time of registration on 19th May 2009.

Laboratory and Computing facilities: The biotechnology & molecular biology laboratories are well equipped with modern equipments and other lab wares required.

Lodging and Boarding: Arrangements for the stay of the participants during the training program will be made in faculty house/ trainees hostel of the university on payment basis. The participants will also have to pay for their boarding and lodging charges during the training program. The organizers of the course will not bear any expenses on account of the participants.

Number of Participants: The maximum number of participants shall be 20.

Participants and Eligibility: Participants are invited from ICAR Institutes/ SAU/Basic Science Institutes/ Sate Governments/Private Organizations. They should be graduates having interest in the training.

How to apply: The application for participation may be sent in enclosed prescribed format, duly forwarded by Head of the institution. It should reach the Course Director latest by **May15, 2009** by post, fax or email. TA & DA of the participants will be borne by participants/sponsoring institutions/ organisations etc. The participants will be selected on 'first come first serve' basis and shall be informed about their selection by **16th May, 2009**.

All correspondence may please be addressed to:

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Photocopy of the application form can be used

A practical training course on “Genomics, transformation and molecular marker tools for crop improvement”

Objective

Agricultural biotechnology encompassing areas of transgenic development, structural and functional genomics including marker assisted crop improvement could provide us with opportunities towards breaking the yield plateaus for sustainable food production. The recombinant DNA technique has enabled gene transfer across all possible inter-species barriers. The present era of ‘Gene Revolution’ requires skilled human resources in this high throughput area.

The Department of Biotechnology & Molecular Biology, CCS Haryana Agricultural University, Hisar, Haryana is a leading seat of learning in the field of Agricultural Biotechnology with emphasis on plants and micro-organisms. The department is going to organize three weeks hands on training on the topic “Genomics, transformation and molecular marker tools for crop improvement” covering different techniques in plant tissue culture, genetic engineering and molecular biology. The proposed training has been designed keeping in view the needs of officers and teachers of ICAR/SAU/State Univ. & Colleges and Graduate college students. The training programme will include lectures as well as practical classes.

Course contents

- Isolation and purification of genomic DNA and RNA from plants and microorganisms.
- Estimation of quality and quantity of nucleic acids.
- PCR amplification of genomic DNA using RAPD/ISSR/SSR primers.
- Resolution of PCR amplified products by agarose gel electrophoresis.
- Scoring of amplified bands and analysis for polymorphism/sex-specificity.
- RT-PCR.
- Cloning of RT-PCR product in *E.coli*.
- *Agrobacterium*-mediated genetic transformation of different crop species such as rice, *Brassica* etc.