

Application Form

1. Full Name: _____

2. Designation: _____

3. Sex: _____ 4. Date of birth _____

5. Present address: _____

6. Mobile No. /Tel No. (office) _____ (Res) _____

7. Email address _____

8. Teaching/ research /professional experience along with the posts held (during last five years)

Post held	Institution	Period	Nature of duty

9. Academic records

Exam Passed	Subjects	Year of passing	Percent/ OGPA	University
Ph.D.				
Masters degree				
Bachelors degree				

Signature of the applicant

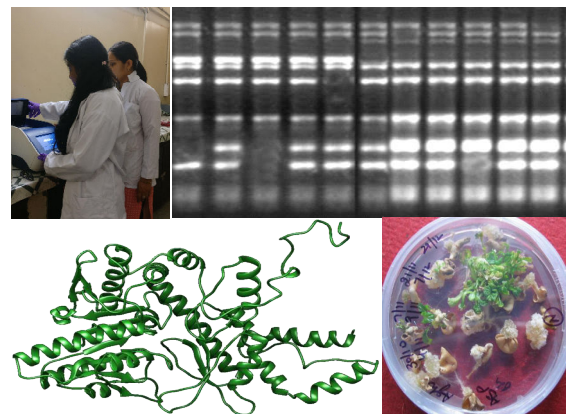
10. Date: _____

11. Place: _____

12. Recommendation of forwarding institution/organization:

Three weeks Training Course on Enhancing Crop Productivity through Biotechnological Tools and Techniques

June 19 to July 9, 2018



Course Director: Dr Pushpa Kharb

Course Coordinators: Drs. Neelam R Yadav, Sudhir Kumar,
Shikha Yashveer, Upendra Kumar & Ms Neeru Redhu

Organized By

Department of Molecular Biology, Biotechnology &
Bioinformatics
CCS Haryana Agricultural University, Hisar, Haryana

Location: Hisar is located 165 Km from Delhi. It is well connected to Delhi and other cities of Haryana as well as its neighboring states by train and/or bus.

Laboratory and computing facilities: The laboratories in department are well equipped with modern equipments and other facilities.

Eligibility: Graduate students and faculty members from ICAR Institutes/SAUs/State Government/Private Organizations.

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

Course Fees: Participants are requested to pay the registration fee as per the status:

Student: Rs 2,000;

Faculty: Rs 3,000

The registration fee has to be deposited in cash at the time of registration on **June 19, 2018.**

Lodging and Boarding: Arrangements for the stay of the student participants during the training program will have to be made by the students on their own. Faculty from the Govt. institutes/Univ. or ICAR may be accommodated in faculty house/ trainees hostel of the University on payment basis.

How to apply: The application for participation may be sent on prescribed format, duly forwarded by Head of the institution. It should reach the Course Director latest by **June 15, 2018** by post, fax or email. TA and DA will not be borne by host institute. The participants will be selected on 'first come first serve' basis and shall be registered on June 19, 2018.

All correspondence may please be addressed to:

Dr. Pushpa Kharb, Course Director and Professor & Head
Dept of Molecular Biology, Biotechnology & Bioinformatics
CCS HAU, Hisar 125004
Phone no. 01662-285407
Email: hodmbbb@gmail.com

Training course on 'Enhancing crop productivity through biotechnological tools and techniques'

Biotechnology, encompassing areas of plant tissue culture, transgenic development, linkage mapping and marker-assisted selection, and structural and functional genomics, provided opportunities for genome analysis, genetic improvement and value addition in plants and microbes. It is believed that the next revolution in agriculture can be achieved only by the effective application of biotechnological/genomics tools. To meet the increasing demand, strategies for agricultural research have to be reoriented. Both conventional and biotechnological tools have to be used in conjunction to not only improve the crop productivity but also the nutritional quality and industrial utility of crop species. The present era of 'Biotechnology' requires skilled human resources in this high throughput area.

The Department of Molecular Biology, Biotechnology & Bioinformatics, CCS Haryana Agricultural University, Hisar, Haryana, is organizing a three week hands-on-training on the topic *'Enhancing crop productivity through biotechnological tools and techniques'* covering different techniques in plant tissue culture, genetic engineering, marker-assisted selection and genomics. The proposed training has been designed keeping in view the needs of the Graduate students, teachers and researchers from ICAR/SAU/State Universities & Colleges. The training programme will include lectures as well as practical classes.

Course contents:

- Plant tissue culture and genetic transformation.
- Molecules of genetic inheritance, molecular markers, PCR, linkage mapping, marker-assisted selection and various aspects of molecular breeding.
- Structural and functional genomics and recent developments.

Hands-on-training:

- Plant regeneration, embryo culture, plant transformation, etc.
- Isolation of plasmid DNA and genomic DNA & RNA.
- PCR amplification of genomic DNA using molecular markers and their resolution by gel electrophoresis.
- RT-PCR and cloning of RT-PCR products in *E. coli*.
- Data analysis and bioinformatics tools.

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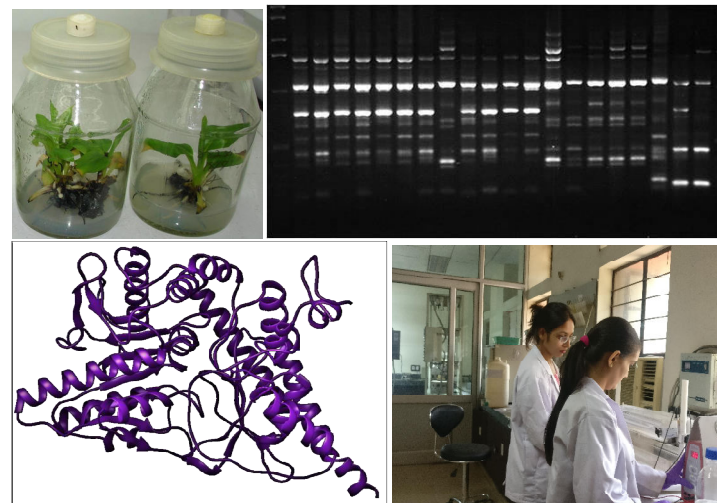
Signature of the applicant

10. Date: _____
11. Place: _____

12. Recommendation of forwarding institution/organization:

Six Weeks Hands-on Training Course on Molecular Breeding and Plant Tissue Culture Approaches for Crop Improvement

June 19 to August 1, 2018



Course Director: Dr Pushpa Kharb

Course Coordinators: Drs. Neelam R Yadav, Sudhir Kumar, Shikha Yashveer, Upendra Kumar & Ms Neeru S Redhu

Organized By

**Department of Molecular Biology, Biotechnology & Bioinformatics
CCS Haryana Agricultural University, Hisar, Haryana**

Location: Hisar is located 165 Km from Delhi. It is well connected to Delhi and other cities of Haryana as well as its neighboring states by train and/or bus.

Laboratory and computing facilities: The laboratories in department are well equipped with modern equipments and other facilities.

Eligibility: Graduate students and faculty members from ICAR Institutes/SAUs/State Government/Private Organizations.

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

Course Fees: Participants are requested to pay the registration fee as per the status:

Student: Rs 3,000;

Faculty: Rs 4,000

The registration fee has to be deposited in cash at the time of registration on **June 19, 2018**.

Lodging and Boarding: Arrangements for the stay of the student participants during the training program will have to be made by the students on their own. Faculty from the Govt. institutes/Univ. or ICAR may be accommodated in faculty house/ trainees hostel of the University on payment basis.

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Dept of Molecular Biology, Biotechnology & Bioinformatics
CCS HAU, Hisar 125004
Phone no. 01662-285407
Email: hodmbbb@gmail.com

Hands-on training course on 'Molecular breeding and plant tissue culture approaches for crop improvement'

Biotechnology encompassing areas of plant tissue culture, transgenic development, linkage mapping and marker-assisted selection, and structural and functional genomics have provided us ample opportunities for genome analysis, genetic improvement and value addition in plants and microbes. It is believed that the next revolution in agriculture can be achieved only by the effective application of biotechnological/ genomic tools in combination with conventional breeding and agronomic approaches. To meet the increasing demand, strategies for agricultural research have to be reoriented. Both conventional and biotechnological tools have to be used in conjunction to not only improve the crop productivity but also the nutritional quality and industrial utility of crop species. The present era of 'Biotechnology' requires skilled human resources in this high throughput area.

The Department of Molecular Biology, Biotechnology & Bioinformatics, CCS Haryana Agricultural University, Hisar, Haryana, is organizing a six week hands on training on the topic *Molecular breeding and plant tissue culture approaches for crop improvement* covering different techniques in plant tissue culture, genetic engineering, marker-assisted selection and genomics. The proposed training has been designed keeping in view the needs of the Graduate students, teachers and researchers from ICAR/SAU/State Universities & Colleges. The training programme will include lectures as well as practical classes.

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- Isolation of plasmid DNA and genomic DNA & RNA.
- PCR amplification of genomic DNA using molecular markers and their resolution by gel electrophoresis.
- RT-PCR and cloning of RT-PCR products in *E. coli*.
- Data analysis and bioinformatics tools.
- A three weeks training on a specific mini-project on plant tissue culture, genetic transformation, marker technology or microbial biotechnology.