National Agricultural Higher Education Project (NAHEP) - CAAST Sponsored Training

Genomics Assisted Breeding For Crop Improvement
(September 30th - October 12th 2019)

Course Directors: Dr. A. K. Singh
Dr. Vinod

Course Coordinators: Dr. Gopala Krishnan S
Dr. Ranjith K. Ellur
Dr. Kumar Durgesh
About NAHEP-CAAST:

Centre for Advanced Agricultural Science and Technology (CAAST) is a student centric subcomponent of the World Bank sponsored National Agricultural Higher Education Project (NAHEP) granted to IARI to provide a platform for strengthening educational and research activities of post graduate and doctoral students.

Objectives:

- To provide information on basic concepts, rational strategies and applied aspects of research that can effectively be utilized in developing crop varieties using genomics-assisted breeding.
- To provide hand-on experience in undertaking genomics-assisted breeding programme.

Course Outline:
The training will include sessions on:

- Lectures on genomics techniques in crop improvement
- Visits to Sequencing computing and phenomics facilities
- Group activities for case studies
- Interactive discussion presentation and Quiz

Broad areas:

- Molecular markers: Introduction and application in plant breeding
- Genome sequence: applications in plant breeding
- Bioinformatics in plant breeding
- Diversity analyses and phylogenetic relationships
- Mapping population: basic concepts and development
- Linkage analyses and mapping function
- Mapping genes and QTLs
- Association mapping in crops
- Marker-assisted selection in crop improvement
- Application of DH technology in genomics-assisted breeding
- Genomic selection in plant breeding
- Phenomics in plant breeding
Who can participate:
M.Sc. and PhD students of ICAR accredited SAUs, CAUs, and other UGC recognized universities
Desirable: Basic knowledge on genetics and plant breeding, crop improvement

Number of participants:
The number of participants will be limited to twenty five.

Registration fee:
No registration fee is to be paid; the programme is fully sponsored by NAHEP-CAAST.

Duration:
- 10 days during September 30th – October 12th, 2019

Food and Accommodation:
- Boarding and lodging for outstation candidates will be arranged at IARI by the organizers.
- TA will be provided for the trainees limited to shortest trip by III-tier AC from the University in which the candidates are enrolled.

Important dates:
- Last date for receipt of application: September 10th, 2019
- Intimation of selection: September 13th, 2019
- Confirmation of participation by candidates: September 15th, 2019

Application form can be downloaded from:
http://www.iari.res.in/
http://nahep-caast.iari.res.in

How to apply:
Complete application form in the prescribed format forwarded by head of the institute or departmental authorities should reach the Course Director, Division of Genetics, ICAR-IARI, New Delhi on or before September 10th, 2019.
Scanned copies of application forms may be sent to:
caastiari.gen@gmail.com

Venue:
Division of Genetics,
ICAR-Indian Agricultural Research Institute,
New Delhi
Course Directors:

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