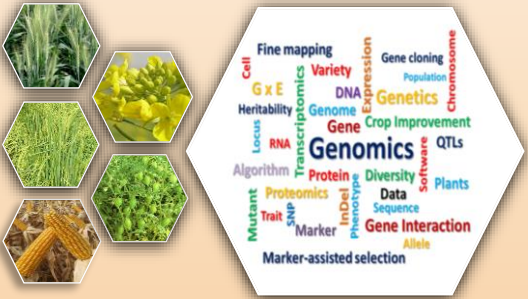




NAHEP

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**

**Division of Genetics
ICAR-Indian Agricultural Research Institute
New Delhi - 110012**





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 **10th September 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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