



National Agricultural Higher Education Project (NAHEP) Sponsored Training

Omics Tools and Techniques for Nutritional Evaluation and Enhancement (09th - 20th January 2020)



Course Director: Dr. Shelly Praveen

Course Coordinators: Dr. Ranjeet R. Kumar

Dr. Suneha Goswami





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 basic information, methodology, result interpretation and uses of various Omics platform in characterizing the nutritional pathway in agriculturally important crop plants.
- To provide hands-on-training to the MSc, PhD and young researcher scholars in recent techniques and tools used for analysing the nutritional quality and enhancement of food crops.

Course Outline:

The training will include two modules :

- Lectures on different Omics Platform and their uses in characterizing nutritional pathway
- Lectures on nutritional diversity – need of hours for good human health
- Visits to Phenomics facility and Super-computer facility
- Evening Lecture on Interesting Scientific topics
- Interactive discussion and presentation

Lectures

- Plant Proteomics: Past Present and Future
- Transcriptomic Approaches for Characterizing the nutritional Pathways
- Epigenetics for improving nutritional status of the plant
- Lipidomics Intervention in Nutrition and Metabolism
- The future of Nutrigenomics
- Rainbow of plant pigments and their health benefits
- Rainbow Rice-Future of Balanced Nutritious diet
- Omega-3 fatty acids: Benefits and Risk in human diet
- Pearl Millet- The Crop of Future Food and Nutritional Security
- Improving the Poor Shelf-life of Pearl Millet Flour – Ways and Means
- Food matrix
- Resistant Starch - Impact on Nutrition





Who can participate:

M.Sc. and PhD students of ICAR accredited SAUs, CAUs, and other UGC recognized universities

Desirable: Basic knowledge of Biochemistry, Molecular Biology, Plant Physiology, etc.

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 January 09th – 20th, 2020

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:
December 25th, 2019
- Intimation of selection :
December 28th, 2019
- Confirmation of participation by candidates :
January 01st, 2020

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 Biochemistry, ICAR-IARI, New Delhi on or before **25th December 2019**. Scanned copies of application forms may be sent to:

caastiari.bio@gmail.com

Venue:

Division of Biochemistry,
ICAR-Indian Agricultural
Research Institute,
New Delhi





Course Director:

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