

Faculty Development Program

Hands on Training on Biotechnological tools in crop improvement

Registration Form

Name:.....

Department:.....

Institution:.....

Date of entry into service:

Address:.....

.....Pin:.....

E-mail:.....

Phone:.....

Declaration: I
agree to abide by the rules and
regulations of the FDP programme. The
information provided herewith is true to
the best of my knowledge.

Place: Signature

Forwarded and Recommended

Signature with seal
Head of the institution

Invited Speakers

Eminent speakers - ICRISAT/ICAR
Institutes

Participants

Faculty members/ researchers from
Agricultural universities/ Institutes/
Colleges.

Total number of participants is restricted
to 20.

Important Dates

Completed registration form should
reach us on or before 04-03-2022. The
selected candidates will be informed by
e-mail.

There is no course fee for the training
program. The course is sponsored by
Skill Vigyan Initiative Scheme of
Department of Biotechnology, Govt. of
India which is being coordinated by the
Telangana State Council of Science &
Technology (**TSCOST**), EFS&T
Department, Govt. of Telangana.

Accommodation for candidates will be
provided on payment basis

Contact

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Faculty Development Program

under

**Skill Vigyan Initiative Scheme of the
Department of Biotechnology Govt. of India**
Coordinated by TSCOST

Hands on Training on Biotechnological tools in crop improvement



14th to 26th March 2022

Organised by

Institute of Biotechnology
Prof. Jayashankar Telanagana State
Agricultural University
Hyderabad-500030
Telangana

About the Programme

The Skill Vigyan Initiative Scheme of Department of Biotechnology, Govt. of India and TSCOST Sponsored Faculty Development Programme (FDP) is designed to train the faculty who wish to upgrade the skills and knowledge in area of biotechnological tools for crop improvement. Hands on training will be provided to strengthen the practical knowledge with emphasis on molecular markers and marker assisted breeding for crop improvement. This programme includes visit to ICRISAT and ICAR research centres as per the theme of FDP programme.

Invited Speakers

Dr. R.M. Sundaram (Director, ICAR-IIRR)

Dr. T. Nepolean (ICAR-IIMR)

Dr. V. Dinesh Kumar (ICAR-IIOR)

Dr. P. Rajendra Kumar (ICAR-IIMR)

Dr Manish Roorkiwal (ICRISAT)

Dr. Dr Kalpana Sastry (MD, Ag. HUB)

Dr. Manish K Pandey (ICRISAT)

Dr. Usha Kiran (ICAR-IIOR)

Dr. Santosh Deshpande (ICRISAT)

Dr. Santosha Rathod (ICAR-IIRR)

Dr. Rajaguru Bohar (ICRISAT)

Lectures

- Integration of conventional and modern biotechnological tools towards crop improvement
- Molecular markers- Overview, classification
- Bioinformatic tools for phylogeny and Genomic data resources
- Marker assisted Crop Improvement (MABC, MAPB, MAGP)
- Linkage and QTL mapping
- Association mapping and its application in crop improvement
- Intervention of molecular tools for genetic purity analysis
- Role of NGS in accelerating high-resolution mapping and gene discovery
- High throughput genotyping and its applications in GWAS and genomic selection
- Application of next-generation breeding approaches and tools to enhance the genetic gain in staple crops
- Intellectual property management in agriculture

Organizing Committee Members

Dr. SNCVL Pushpavalli

Dr. S. Vanisri

Dr. Ch. Anuradha

Venue:

Institute of Biotechnology
Prof. Jayashankar Telanagana State
Agricultural University
Rajendranagar, Hyderabad-500030

Major Practical Sessions

- Isolation of genomic DNA
- Quantification of genomic DNA
- PCR using dominant (RAPD) & codominant (SSR) markers
- Genetic diversity analysis using SSR data
- Detection of multiple genes for rice gall midge and bacterial blight resistance in pyramided lines
- Screening of F₂ population and F₃ progenies for detection of genes for biotic stress resistance and yield in rice
- DNA fingerprinting of released varieties
- SSRs for hybrid purity assessment in maize
- GWAS using SNP data
- Genomic selection models using R

Important Dates

- **Receipt of applications:** 07-03-2022

- **Intimation to selected candidates:** 07-03-2022