

Centre of Excellence for Digital Farming Solutions for Enhancing Productivity by Robots, Drones and AGVs (DFSRDA)

Online International Training Programme on Recent Physio - Molecular Digital Tools in Abiotic Stress Management for Crop Modeling

29th June - 3rdJuly, 2020



Vasantrao Naik Marathwada Krishi Vidyapeeth Parbhani - 431402 (MS) India

ABOUT

The Centre for Advance Agricultural Science and Technology (CAAST) for Digital Farming Solutions for Enhancing Productivity by Robots Drones and AGV'S (DFSRDA), Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani, Maharashtra (India) is organizing a one week online International training programme on "Recent Physio-Molecular Digital Tools in Abiotic Stress Management for Crop Modeling" from 29th June -3rd July, 2020.

DFSRDA-CAAST is being implemented under World Bank Sponsored National Agricultural Higher Education Project (NAHEP) of Indian Council of Agricultural Research (ICAR), New Delhi, Government of India, since from July 2019. One of the main objective of this centre is the capacity building among PG/PhD students and faculties of VNMKV and other universities about recent advances in agricultural science and technology.

BACKGROUND

Abiotic stress drastically limits agricultural crop productivity worldwide. Climate change threatens the sustainable agriculture with it's rapid & unpredictable efforts, making it difficult for agriculturist and farmers to respond to the challenges coping up with environmental stresses. This challenge comes at a time when plant sciences are witnessing remarkable progress in understanding the fundamental processes of plant growth and development.

In order to deal with the challenge & crop improvement in the era of climate change, it is essential that we adopt the approaches in which plants responds to environmental changes in terms of producing novel phenotypes.

AIM

The online training aims to share the knowledge & experience of the researchers about various methodologies, strategies & recent

scientific development about management of abiotic stresses of the crops in addition to the immediate challenges of climate change in agriculture & allied sectors. This training will helps to bring together researchers / scientists from different institutions working in the area of development of climate resilent varieties and to equip the young scientists to face the challenges posed by changing climatic condition by using plant phenomics tools and to discuss how effective the plant physio-molecular research should be conducted and integrated within multidisciplinary research team.

OBJECTIVES

- To provide technical knowledge on designing new plant architecture aimed at producing climate resilient crop varieties through different physiological, digital and remote sensing tools.
- To familiarized young professionals with digital tools of molecular physiology & their utilization in agriculture so it will help to make them capable to undertake advanced teaching, research and extension activities.
- To divulge the achievements of physio-molecular research and their impact on crop improvement and food security.
- Impart Knowledge for modeling crops using phenomics tools.

TARGET AUDIENCE

PG/PhD Students, Faculties, Scientists and Staff of Vasantrao Naik Marathwada Krishi Vidyapeeth, state agricultural universities, ICAR and non agriculture universities within country and abroad from the field of agriculture and allied sciences. The Research fellows working in various National / International adhoc schemes are eligible to register.

REGISTRATION

The training will be available to 400 registered eligible candidates (200 candidates of VNMKV and 200 candidates of other universities/Institutions).

The link for the online registration is https://docs.google.com/forms/d/e/1FAIpQLSdlbfvloKcF_h1vA5BBZ74CVzmF1lEac1EGE8zDb26QqYH2 Rw/viewform?usp=sf_link

Registration is free and open till 27th June 2020 (2.00 pm IST).

Registration QR Code



COMMUNICATION ABOUT SELECTION

- Selected candidates will receive confirmation through registered e-mail id.
- The What's App group of the selected candidates will be formed at least one day before the start of the training programme and all the communications regarding the training programme will be posted in the group.
- Alternatively, candidates can keep accessing the CAAST VNMKV website (https://nahep.vnmkv.org.in/) regarding the selection, preferable on the day before the start of the training programme.
- Daily lectures through ZOOM, online platform will be conducted along with online discussions and tutorials. The link, ID and password for joining the online session will be communicated through What's App group of the selected candidates 30 minutes before the start of the session.
- Certificates will be issued to those participants only who will complete all online sessions, assignments/tutorials and feedback.



Experts Talk



Water Use and Water Use Efficiency in Dryland Crop Production

Prof. Kadambot SiddiqueDirector
The University of Western Australia



Role of Plant Physiology in Enhansing Crop Productivity

Dr. P.S. Deshmukh Emeritus Scientist & Former Head Division of Plant Physiology ICAR-IARI, New Delhi



Imaging Sensors for High Throughput Plant Phynotyyping for Abiotic Stress Management

Prof. Viswanathan Chinnusamy
Head
Division of Plant Physiology
ICAR-IARI, New Delhi



Plant Phenomic Tools for Enhancing Abiotic Stress Tolerance in Rainfed Crops

Prof. M Maheswari Head Division of Crop Science ICAR - CRIDA Hyderabad



Dr. Rajeev N Bahuguna Dr. Rajendra Prasad Central Agricultural University Pusa, Samastipur, Bihar Phenotyping Crops for Combinations of Abiotic Stresses



Physiological, Digital and Remote Sensing Tools to Screen for Drought and Heat Tolerance

Prof. P.V. Vara Prasad
Director
Kansas State University, Manhattan
Kansas, USA



Chronology of Methods For Abiotic Stress Studies

Dr. Velamoor Rajagopal Former Director, CPCRI Kerala and President, Society for Hunger Elimination (SHE)



Genomic Assisted Breeding for Chickpea Improvement

Prof. C. Bharadwaj Principal Scientist Division of Genetics ICAR-IARI, New Delhi



Functional Root Traits for Improving Drought Tolerance in Rice

Dr. Niteen N Kadam Institute of Genomics Biology University of Illinois Illinois, USA



High-Throughput Root Phenotyping : From Lab to Field

Dr. Vivek Deshmukh Senior Researcher Farmship Co.Ltd., Japan (Tokyo)



Chief Patrons



Dr. A.S. Dhawan Hon. Vice - Chancellor VNMKV, Parbhani



Dr. R.C. Agrawal National Director NAHEP, ICAR, New Delhi

Patrons



Dr. Prabhat Kumar National Coordinator NAHEP, ICAR, New Delhi



Dr. D.N. GokhaleDirector of Instruction & Dean (F/A)
VNMKV, Parbhani

Convenors



Dr. G.U. Shinde PI, NAHEP, CAAST DFSRDA VNMKV, Parbhani



Dr. Rajesh P. Kadam

Head, Dept. of Extension Education and
Co- PI (SSPN), NAHEP, CAAST DFSRDA
VNMKV, Parbhani

Co-Convenor



Dr. K. S. Baig Associate Director (Seed) STR & BSP Unit VNMKV, Parbhani

Organizing Secretary



Dr. Godawari S. Pawar Associate Professor STR and BSP Unit & Core- Team Member NAHEP VNMKV, Parbhani

Training Co-ordinators (NAHEP, CAAST DFSRDA VNMKV, Parbhani)

Dr. Hemant N. Rokade Raheem Khan Nizam Khan Er. Shailesh S. Shinde Dr. Rashmi A. Bangale Dr. Swati Mundhe Er. Gopal D. Raner

