

National Webinar on Halophytes for Alleviating Salinity Stress in Agriculture: Potentials and Problems

September 30, 2020



Registration Link: <https://forms.gle/BCrSuyshNnnxaGXx8>

Organized by
ICAR- National Institute of Abiotic Stress Management
Baramati, Pune, Maharashtra, India

About

Degradation of agricultural land and escalating cost of restoration are the big challenges for achieving the sustainable development goals. Halophytes offer feasible options for restoration of the degraded and desertified lands. They can alleviate abiotic stresses of crop grown in agro-ecologies featured by deficit or excess soil moisture and excess salt and have potential to serve as alternative food, fodder, fibre and fuel for improving livelihood of farmers vulnerable to climate change. Salinity tolerance and adaptation are exceptional mechanisms which make halophytes resilient to harsh ecologies. Many of the known diverse halophytes have been found to be agriculturally important worldwide and projected as super crops for food and nutritional security, and alternative for green energy. The halophytes can be reservoirs of stress-responsive genes and agriculturally important microbial resources that can play key role in employing microbial genomics for abiotic stress management in agriculture. A huge diversity of halophytes offers ample opportunities to develop sustainable options to make agriculture climate smart.

Objectives

The objectives of this webinar are to (1) explore the scope for utilising halophytes in the regions affected by abiotic stresses such as salinity, drought, and waterlogging; (2) explore them as a source of stress tolerant microbes and genes for abiotic stress tolerance; (3) identify the researchable issues in utilising coastal and inland halophytes as feed and fodder crops for bio-saline agriculture and (4) create awareness on the role and value of halophytes that have potential for diversification of Indian food.

Speakers



Dr. Dr Pawel,

Director of Technical Support for Cytozyme
Salt Lake City UT, 84115 USA



Dr. Penna Suprasanna,

Nuclear Agriculture and Biotechnology
Division BARC, Mumbai



Dr. Dionysia Aggeliki Lyra

Halophyte Agronomist,
Directorate of Programs
International Center for Biosaline Agriculture,
Dubai, United Arab Emirates



Dr. R. Ramasubramanian

Principal Coordinator
Coastal Systems Research Programme of
MSSRF



Dr. Deiva Oswin stanley

Eco Balance Consultancy (EBC)
Gujarat

Convener



Dr. Kamlesh Kumar Meena

Senior scientist & Head (I/C) , SESM
ICAR-NIASM

Co-Convener



Dr. G. C. Wakchaure

Senior Scientist (Agril. Engineering)
School of Drought Stress Management
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Dr. Satish Kumar

Scientist (Biochemistry)
School of Drought Stress Management,
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Tentative Technical Programme

Expert	Topic	Time (IST)
 Dr. Himanshu Pathak Director, ICAR-NIASM	Introductory Remarks	09:30
 Dr. Narendra Pratap Singh President, SARAS, ICAR-NIASM	Introductory Remarks	09:40
About the Webinar- Dr Kamlesh Kumar Meena		09:45
 Dr. Pawel Director of Technical Support for Cytozyme Salt Lake City UT, 84115 USA	Seaweed based Cytozyme for abiotic stress tolerance in crop plant	09:50
 Dr. Penna Suprasanna Nuclear Agriculture and Biotechnology Division BARC, Mumbai	Halophytes for bio-saline agriculture for farmer income in degraded land: Utilization and value addition	10:35
 Dr. Dionysia Aggeliki Lyra Halophyte Agronomist, Directorate of Programs International Center for Biosaline Agriculture, Dubai, United Arab Emirates	Halophyte: Potential source of future food and livelihood security in desert and saline ecosystem	11:20
 Dr. R. Ramasubramanian Principal Coordinator Coastal Systems Research Programme of MSSRF	Bioremediation of salinity by halophytes	12:05
 Dr. Deiva Oswin stanley Eco Balance Consultancy (EBC) Gujarat	Bioprospecting of Salicornia brachiata: Medical importance and salt encrusted land development	12:50
 Dr. Himanshu Pathak Director, ICAR-NIASM	Concluding remarks	13:35
 Dr. Satish Kumar Scientist (Biochemistry) School of Drought Stress Management	Vote of thanks	13:40

