

Faculty Development Programme

On

Development of Transgenic in Rice

Date: 29th June 2020

Resource Person:

Dr. Dipankar Bhattacharay

Professor, Department of Chemistry

No. of Students and/or Faculty Participated: 195

About the session;

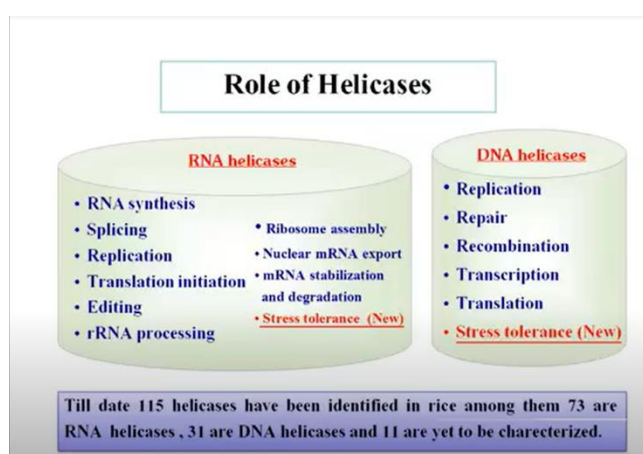
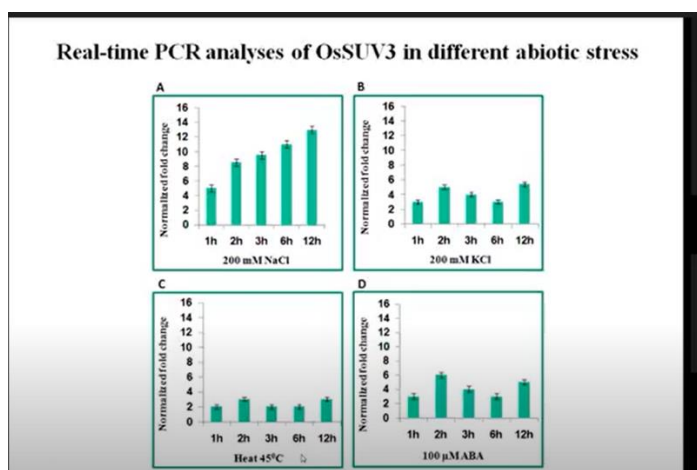
Genetically modified rice is rice strains that have been genetically modified (also called genetic engineering). Rice plants have been modified to increase micronutrients such as vitamin A, accelerate photosynthesis, tolerate herbicides, resist pests, increase grain size, generate nutrients, flavors or produce human proteins.

Objective

The session briefed on the development of transgenic rice with genes for biotic and abiotic stress tolerance. Some of the genes that were used were SUV3 Gene, PDH45, RDH45, BAT1, G-PROTEIN GAMMA SUBUNIT, G-PROTEIN ALPHA SUBUNIT, G-PROTEIN BETA SUBUNIT, Conversion of C3 to C4 Plant. The RNA helicase gene is extracted from Rice and used to help in Salinity and drought stress tolerance in plants. The salinity tolerance efficiency of the transgenic seeds is tested and certified by ICAR- Central Soil Salinity Research Institute, Karnal, Haryana, 132001.

Outcome

Seeds developed are used by other seed companies such as Bheejo Sheetal, and Maharashtra, for developing salt tolerance varieties.





WEBINAR ON

Development of Transgenic in Rice

Organised by :

**Centurion University of Technology and
Management**

Resource Person

Dr. Dipankar Bhattacharya

Professor, Department of Chemistry



Date:: 29-06-2020

FACULTY LIST

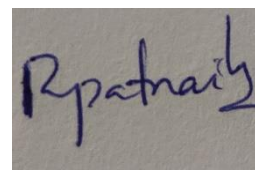
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