

National Symposium
on

Potential Crops for Food and Nutritional Security

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Tamil Nadu Agricultural University
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ABSTRACTS



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| THEME - II |



GENETIC IMPROVEMENT OF POTENTIAL CROPS



DEVELOPMENT OF BREEDER SEED STANDARDS AND PRECOCITY OF GENETIC VIGOR FOR SWEET POTATO AND YAM BEAN - OVER VIEW

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Sweet potato and yam bean have very good potential for exploitation for food, nutrition and to mitigate climate change. The application of improved breeding techniques and development of high yielding varieties will help to increase area, productivity and trigger commercialization. Seed quality consist of possession of genetic and physical purity associated with high germination and seed health. The yam bean is mainly self-pollinating crop and propagated by seed. Seed system in yam bean has not been well established in view of new introduction in India and non-expansion to a sizable area. Farmers in the country still rely on traditional land races. Very few varieties had been released under NARS system remains popular in Bihar and West Bengal. Sweet potato is globally the second most economically important root crop after potato and it has gained prominence due its short growth cycle and ability to survive in diverse agro climatic conditions and short cycle. Sweet potato is propagated by vine cutting and true seeds are being used for developing hybrids with different characters. In the present paper, research work on breeder seed standards and precocity of genetic vigor has been discussed with an objective to explore modern breeding for developing new cultivars for different agro-climatic conditions of India