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## **Somaclonal Variation In Crop Improvement**

Somaclonal variations

vis-à-vis crop

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Variation In Crop  
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improvement Genetic variation is an essential component of any conventional crop breeding program. The typical crop improvement cycle takes 10–15 years to complete and includes germplasm manipulations, genotype selection and stabilization, variety testing, variety increase, proprietary protection and crop production stages.

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## **Improvement I variations and their applications in ...**

Somaclonal variation may be profitably utilized in crop improvement since it reduces the time required for releasing the new variety by at least two years as compared to mutation breeding and by three years in comparison to back cross method of gene transfer.

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## **Crop Improvement Through Somaclonal Variation**

Somaclonal variation is cheaper than other methods of genetic manipulation. At the present time, it is also more universally applicable and does not require 'containment' procedures. It has been most successful in crops with limited genetic systems and/or

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narrow genetic bases,  
where it can provide a  
rapid source of  
variability for crop  
improvement.

## **Somaclonal variation as a tool for crop improvement ...**

Somaclonal variation  
and crop improvement  
Larkin and Scowcroft  
(1981) proposed the  
term somaclone to  
describe the plants  
originating from any  
type of tissue culture.

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Genetic variation found to occur between somaclones in plant tissue cultures was called somaclonal variation. This variation

## **Somaclonal variation and crop improvement**

Somaclonal variations for crop improvement: Selection for disease resistant variants in vitro. Somaclonal variations (SV) are genetic or epigenetic



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changes induced in plant cell and tissue culture.

## **(PDF) Somaclonal variations for crop improvement ...**

Abstract. Somaclonal variation is defined as genetic variation observed among progeny of plants regenerated from somatic cells cultured in vitro. Although theoretically all plants regenerated from

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somatic cells should be clones, a number of observations have indicated that this is not the case.

## **Somaclonal Variation: Its Genetic Basis and Prospects for ...**

Somaclonal variation is a tool that can be used by plant breeders. The review examines where this tool can be applied most effectively and the factors that limit or

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improve its chances of  
success...

## **(PDF) Somaclonal variation as a tool for crop improvement**

Somaclonal variation in cultured plant cells has been exploited to select herbicide resistance traits for crop improvement. Utilization of plant cell and tissue culture has provided one of the most important

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selection techniques for the development of HRCs ( Chaleff, 1988; Chaleff and Ray, 1984; Hughes, 1983; Maliga et al., 1987 ).

## **Somaclonal Variation - an overview |**

### **ScienceDirect Topics**

Somaclonal variations are reported in all types of plant tissue cultures. In recent years, the term gametoclona

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variations is used for the variations observed in the regenerated plants from gametic cells (e.g., anther cultures). For the plants obtained from protoplast cultures, proto-clonal variations is used. Basis of Somaclonal Variations :

## **Somaclonal Variations: Basis, Isolation, Factors and ...**

Somaclonal variation 1.

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□ Genetic variations in plants that have been produced by plant tissue culture and can be detected as genetic or phenotypic traits. 2.

## **Somaclonal variation**

SIGNIFICANCE OF  
SOMACLONAL

VARIATION IN CROP  
IMPROVEMENT

Somaclonal variation appears to be an important alternative for creation of genetic variability in crops

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where tissue culture  
plant regeneration  
system has been  
established.

Somaclonal variation  
has been described for  
a variety of both  
qualitative and  
quantitative traits.

## **Somaclonal Variation: Genetic basis and Significance in ...**

Sugarcane: Application  
of somaclonal variation  
in crop improvement

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programme was established in sugarcane. The Hawaiian Sugar Planters Association Experimental Station recorded genetic variation among sugarcane plants regenerated from tissue culture. Variations were recorded based on cytogenetic, morphological and enzyme profiles.



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**Examples of  
Somaclonal  
Variation |  
Biotechnology**

Somaclonal variation is the variation seen in plants that have been produced by plant tissue culture.

Chromosomal rearrangements are an important source of this variation. The term somaclonal variation is a phenomenon of broad taxonomic occurrence, reported

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for species of different ploidy levels, and for outcrossing and inbreeding, vegetatively and seed propagated, and cultivated and non-cultivated plants. Characters affected include both qualitative and quantitative traits. Somaclonal variation

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In continuation of  
Somaclonal Variation  
and Crop Improvement  
I (1990), this volume is  
comprised of twenty-

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four chapters dealing with somaclonal variants showing resistance to salt drought, herbicides, viruses, Alternaria, Fusarium, Glomerella, Verticillium, Phytophthora, fall armyworm, etc. in a number of plants of economic importance.

## **Somaclonal Variation in Crop Improvement II (Biotechnology ...**

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## Variation In Crop Improvement

Genetic variability is an important parameter for plant breeders in any conventional crop improvement programme. Very often the desired variation is unavailable in the right combination, or simply does not exist at all. However, plant breeders have successfully recombined the desired genes from cultivated crop germplasm and related

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wild species by sexual  
hybridization, and have  
been able to ...

## **Somaclonal Variation and Induced Mutations in Crop Improvement**

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## **Somaclonal Variations and Crop Improvement | J. Semal ...**

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Somaclonal variations was a good source of genetic improvement of sugarcane for disease resistance with no SNP changes in candidate genes.

Keywords: Sugarcane, somaclonal variations, red rot, SCMV, candidate genes, genetic integrity.

Ahmed, Gardezi, Batley, Hayashi, Zander, Javid, Iqbal & Awan

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**SOMACLONAL  
VARIATIONS FOR  
RED ROT AND  
SUGARCANE MOSAIC**

...

In continuation of  
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and Crop Improvement  
I (1990), this volume is  
comprised of twenty-  
four chapters dealing  
with somaclonal  
variants showing  
resistance to salt  
drought, herbicides,  
viruses, Alternaria,  
Fusarium, Glomerella,



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Verticillium,  
Phytophthora, fall  
armyworm, etc. in a  
number of plants of  
economic importance.

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