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By Dr. Vishwa Raj Lal, Assistant
Professor, Biotechnology IB6043
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#APPLICATIONS of #SOMA #Clonal #variation#RITIKA's tutorial, Somaclonal Variation In Crop Improvement

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.

Crop Improvement Through Somaclonal Variation

Ahloowalia, B.S. 1986. Limitations to

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the use of somaclonal variation in crop improvement. In: Somaclonal Variation and Crop Improvement, Advances in Agricultural Biotechnology, pp. 14–27 (ed. J. Semal). Dordrecht: Martinus Nijhoff. Google Scholar

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Somaclonal Variation in Crop Improvement I: 1 ...

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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 improve its chances of success.

(PDF) Somaclonal variation as a tool for crop improvement

Somaclonal variations (SV) are genetic or epigenetic changes induced in plant cell and tissue culture. Induction of somaclonal variation, is an alternate approach to conventional breeding and...

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Somaclonal Variation in Crop Improvement I: v. 1 ...

Somaclonal variation is defined as genetic variation observed among progeny plants obtained after somatic tissue culture in vitro. Theoretically all progeny plants regenerated from somatic cells should be identical clones.

Somaclonal variation: Basis, Applications and limitations ...

Somaclonal variations are reported in all types of plant tissue cultures. In recent years, the term gametoclonal variations is used for the variations observed in the regenerated plants from gametic cells (e.g., anther

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improvement). For the plants obtained from protoplast cultures, proto-clonal variations is used.

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

improvement through somaclonal variation enables breed- ers to obtain plants tolerant to the biotic or abiotic stress, such as drought, high salinity, high or low soil pH and

(PDF) Somaclonal variations and their applications in ...

Applications of Somaclonal Variations.

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This article throws light upon the five applications of somaclonal variations.

The five applications are: (1)

Production of agronomically useful plants (2) Resistance to diseases (3)

Resistance to abiotic stresses (4)

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Resistance to herbicides and (5)
Improved seed quality. Somaclonal variations (and also gametoclonal variations, described later) are highly useful in plant breeding programmes.

Applications of Somaclonal Variations
- Biology Discussion

Tissue culture-induced somaclonal variation is akin to variations induced with chemical and physical mutagens (Jain 2001) and offers an opportunity to uncover natural variability for their potential exploitation in crop improvement.

Somaclonal variations and their applications in ...

Crop improvement through somaclonal variation enables breeders to obtain plants tolerant to the biotic or abiotic stress, such as drought, high

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salinity, high or low soil pH and disease tolerance (Yusnita et al. 2005).

Somaclonal variations and their applications in ...

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 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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Somaclonal variation - Wikipedia

SIGNIFICANCE OF SOMACLONAL VARIATION IN CROP IMPROVEMENT

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

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

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case 1,2 In addition to the basic genetic implications of this phenomenon, the variation has proven useful in breeding programs of various crop plants. 3 Conventional plant breeding has traditionally been ...

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

Somaclonal variation is a valuable tool in plant breeding, wherein variation in tissue culture regenerated plants from somatic cells can be used in the development of crops with novel traits. From: Plant Biotechnology and Agriculture, 2012

Somaclonal Variation - an overview | ScienceDirect Topics

Somaclonal variation and crop improvement Larkin and Scowcroft

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(1981) proposed the term somaclone to describe the plants originating from any type of tissue culture. Genetic variation found to occur between somaclones in plant tissue cultures was called somaclonal variation.

Somaclonal variation and crop improvement

Significance of somaclonal variation in crop improvement. It is an important alternative for creation of variation in such crops, which are extensively propagated by tissue culture. This is help full in breaking linkages between certain undesirable genes. New varieties are developed in tomato, sugarcane, celery, brassica and sorghum.

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