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### **In Vitro Haploid Production In**

In vitro culture of un-pollinated ovaries (or ovules) is usually employed when the anther cultures give unsatisfactory

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results for the production of haploid plants. The procedure for gynogenic haploid production is briefly described. The flower buds are excised 24-48 hr. prior to anthesis from un-pollinated ovaries.

## **Production of Haploid Plants (With Diagram)**



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Although several methods have been developed for producing haploid plants, the in vitro techniques are much more efficient than inter-specific hybridization or treatment with plant-growth...

## **(PDF) In vitro production of haploid plants**

The production of haploid embryos in

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vitro is a powerful tool for mutational analysis, as it enables the identification of recessive mutant alleles present in first generation (F1) female carriers following mutagenesis in the parental (P) generation.

## **Production of Haploid Zebrafish Embryos by In Vitro ...**

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The doubled haploid system is the fastest way of hybrid variety production and plays an important role in breeding programs and developmental studies.

The most commonly used methods of haploid induction, leading to haploid plants in vitro through the plant tissue/cell culture, are named as the in vitro -based (IVB) methods.

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**In vitro-based doubled haploid  
production: recent ...**

Abstract. Spelt (*Triticum aestivum* ssp. *spelta*), a close relative of wheat, was the main cereal in central Europe until the beginning of this century. Its supposed origin is the Middle East or Europe. Although today wheat has

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## **In Vitro Production of Haploids in Triticum spelta ...**

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Aspects and Methods (eds. S. Mohan  
Jain, S. K. Sopory, & R. E. Veilleux)  
217-235 (Springer Netherlands, 1996).

## **Haploid induction via unpollinated ovule culture in ...**

In vitro techniques for haploid  
production: In the plant biotechnology  
programmes, haploid production is

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achieved by two methods. 1.

**Haploid production in detail : agri  
learner**

A total of 2579 non-fertilized  
chrysanthemum ovules pollinated by  
Argyranthemum frutescens were cultured  
in vitro to isolate haploid progeny. One  
single regenerant emerged from each of

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three of the 105 calli produced.

Chromosome counts and microsatellite fingerprinting showed that only one of the regenerants was a true haploid.

## **Characterization of in vitro haploid and doubled haploid ...**

Haploidization is invaluable for basic genetic research and crop breeding. The



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haploid bio-induction principle is an important topic that remains largely unexplored. In this study, both CenH3 RNAi and in vitro inhibition were used to simulate and induce haploids in allopolyploid crop. Notably, in vitro CenH3 inhibition showed that the results were much the same to that of RNAi in phenotype, chromosome behavior,

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microspore production, and haploid induction.

**Haploid Bio-Induction in Plant  
through Mock Sexual ...**

In vitro induction of maternal haploids - gynogenesis:- In vitro induction of maternal haploids, so-called gynogenesis, is another pathway to the

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production of haploid embryos exclusively from a female gametophyte. It can be achieved with the in vitro culture of various un-pollinated flower parts, such as ovules, placenta attached ovules, ovaries or whole flower buds. Although gynogenetic regenerants show higher genetic stability and a lower rate of albino plants compared to

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androgenetic ...

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The development of in vitro techniques for production of haploids was a major feat in the fields of biotechnology and plant breeding in the past few decades. It is documented that Blakelsee et al....

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**(PDF) In vitro haploid and dihaploid  
production via ...**

Haploid embryos are produced in vivo by parthenogenesis, pseudogamy, or chromosome elimination after wide crossing. The haploid embryo is rescued, cultured, and chromosome-doubling produces doubled haploids. The in vitro

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methods include gynogenesis (ovary and flower culture) and androgenesis (anther and microspore culture).

## **Doubled haploidy - Wikipedia**

In vitro haploid production is among the new technologies that show great promise toward the goal of increasing crop yields by making similar germplasm

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available for many crops that was used to implement one of the greatest plant breeding success stories of this century, i. e. , the development of hybrid maize by crosses of inbred lines.

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There are two way for the production of

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haploid plants. They are: (1) In Vivo and (2) In Vitro. The process of apomixis or parthenogenesis is responsible for producing spontaneous natural haploids. Many techniques are followed both by in vivo and in vitro methods for haploid production.

## **Haploid Breeding: Development of**



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**Pure Homozygous Line ...**

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respectively, Agronomy Dep., Univ. of  
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## **In Vitro Production of Haploid Plants of Corn via Anther ...**

Specialized plant tissue culture methods  
have enabled the production of  
completely homozygous breeding lines  
from gametic cells in a shortened time

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frame compared to conventional plant  
breeding.

**Haploid Plants from Tissue Culture:  
New Plant Varieties in ...**

In vitro haploid production is among the new technologies that show great promise toward the goal of increasing crop yields by making similar germplasm

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available for many crops that was used  
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i. e. , the development of hybrid maize  
by crosses of inbred lines.

## **In vitro Haploid Production in Higher Plants: Volume 3 ...**

The 18 chapters making up In Vitro

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Haploid Production in Higher Plants are divided into two sections. Section 1 (eight chapters) covers historical and fundamental aspects of haploidy in crop improvement. Section 2 deals with methods of haploid production, including anther culture,...

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