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germplasm 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.

Amazon.com: In vitro Haploid

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Section 2 deals with methods of haploid production, including anther culture, micropore culture, ovary culture, pollination with irradiated pollen, in vitropollination, and special culture techniques, including polyhaploid production in the

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Triticeae by sexual hybridization, the influence of ethylene and gelling agents on anther culture, conditional lethal markers, and methods of chromosome doubling.

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In vitro haploid production is among the new technologies that show great promise toward the goal of increasing crop yields by making similar germplasm available for many crops that was used to implement one of the greatest plant breeding success stories of this century, i. e. , the



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development of hybrid maize by  
crosses of inbred lines.

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the new technologies that show great  
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crop yields by making similar  
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## IN VITRO HAPLOID PRODUCTION IN HIGHER PLANTS

Haploid plants can be produced through in vitro culture of male gametophytic cells, i.e. microspores or immature pollen. In a general procedure for microspore culture,

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anthers are collected from sterilized  
flower buds in a small beaker  
containing basal media (e.g. 50  
anthers of Nicotiana in 10 ml media).

## Agriculture

In Vitro Production of Haploids

Although several methods have been  
developed for producing haploid

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plants, the in vitro techniques are much more efficient than inter-specific hybridization or treatment with plant-growth...

## Agriculture

(PDF) In vitro production of haploid plants

Although several methods have been

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developed for producing haploid plants, the in vitro techniques are much more efficient than inter-specific hybridization or treatment with plant-growth regulators, temperature or irradiation.

In vitro production of haploid plants |

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In vitro culture of un-pollinated ovaries (or ovules) is usually employed when the anther cultures give unsatisfactory results for the production of haploid plants. The procedure for gynogenic haploid production is briefly described. The



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flower buds are excised 24-48 hr.

prior to anthesis from un-pollinated  
ovaries.

## Biotechnology In Agriculture Production of Haploid Plants (With Diagram)

In vitro induction of maternal haploids  
– gynogenesis:- In vitro induction of

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maternal haploids, so-called gynogenesis, is another pathway to the production of haploid embryos exclusively from a female gametophyte. It can be achieved with the in vitro culture of various unpollinated flower parts, such as ovules, placenta attached ovules,

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ovaries or whole flower buds.

Although gynogenetic regenerants show higher genetic stability and a lower rate of albino plants compared to androgenetic ...

Haploid production - SlideShare

In vitro techniques for haploid

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production: In plant biotechnology programmes, haploid production is achieved by two methods. 1.

Androgenesis: Haploid production occurs through anther or pollen culture, and they are referred to as androgenic haploids. 2. Gynogenesis:

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Haploid production in detail : agri  
learner

In vitro coculture of SSCs from TESE  
samples of NOA patients along with  
Sertoli cells promoted meiosis  
induction and resulted in haploid cell  
generation. These results improve the  
existing protocols to generate

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spermatogenesis in vitro and open  
new avenues for clinical translation in  
azoospermic pat ...

In vitro production of haploid cells  
after coculture of ...

In this study, both CenH3 RNAi and in  
vitro inhibition were used to simulate

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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, microspore production, and haploid induction. Cytological analyses of RNAi and inhibitor-treated progenies

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revealed elimination of chromosomes,  
defective microspores with empty  
nuclei, thereby giving rise to pseudo  
male gametes, and haploid ...

## Agriculture

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

Haploid culture is an in vitro



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technique used to produce haploid (cells have half the number of chromosomes) plants. Blackslee et al. (1922) first reported the natural occurrence of the haploid condition in Datura plants, due to parthenogenesis (embryo development from an unfertilized egg).

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The Techniques of Haploid Production  
- Plant Cell ...

ADVERTISEMENTS: Read this article to learn about the various applications of haploid plants. In vitro production of haploids is of great significance in plant breeding programmes. Some of

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them are listed below: 1. Development  
of homozygous lines:

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cattle could be rapidly in vitro  
induced into haploid sperm cells using  
RA on Sertoli cells feed monolayer.

The procedures have a potential  
application value that can be used to  
conserve threatened and endangered  
species.

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In vitro production of haploid sperm  
cells from male germ ...

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

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doubling produces doubled haploids.  
The in vitro methods include  
gynogenesis (ovary and flower  
culture) and androgenesis (anther and  
microspore culture).

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