In Vitro Plant Breeding

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Plant breeding in vitro Claude Martin Over the centuries a variety of techniques have been developed to propagate plants vegetatively - dividing, layering, and grafting. These traditional methods are all slow, however, and in recent years there has been much interest in 'test-tube' breeding of plants. This is not only very fast - a single rose can produce up to 400 000 descendants in a single year - but is also a very valuable means of eradicating plant diseases.

Plant breeding in vitro - ScienceDirect
covering the history of in vitro breeding as well as emerging research trends in vitro plant breeding offers specific techniques for crop improvement and breeding more and more commercial plant breeding and development employs these methods to protect crops from weather pests and disease covering the history of in vitro breeding as well as emerging research trends in vitro plant breeding

In Vitro Plant Breeding
This chapter examines recent advances in the application of a number of biotechnological techniques used in in vitro plant breeding including embryo rescue, somatic embryogenesis, in vitro pollination, flowering and fertilization as well as protoplast and somatic hybridization. A special focus has been given to exploitation of somaclonal ...

Applications of In Vitro Techniques in Plant Breeding ...
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in in vitro plant breeding including embryo rescue, somatic embryogenesis, in vitro pollination, ? owering and fertilization as well as protoplast and somatic hybridiza- tion.

(PDF) Applications of In Vitro Techniques in Plant Breeding
The projects now are oriented mostly on micropropagation of broadleaved species (Prunus avium and Betula spp.). Using the in vitro propagated plants - two experimental trials have been established in the last year. The laboratory is also ready to work with other species. The laboratory has experience in previous projects concerning:

Trees4Future - IBL In vitro plant breeding
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In Vitro Plant Breeding
In vitro regeneration systems provide a powerful tool for manipulating ploidy to facilitate breeding and development of new nursery and bioenergy crops. The development of polyploids can expand breeding opportunities, assist with the development of seedless triploid cultivars, enhance ornamental characteristics and environmental tolerances, and restore fertility in wide hybrids.

Frontiers | In vitro Ploidy Manipulation for Crop ...
production traits. It is also worth mentioning that the term “in vitro breeding” has been used for decades to refer to a number of in vitro plant breeding techniques, such as micropropagation, in vitro flowering, and in vitro pollination, among others [17]. Although these plant biotechnology

In vitro breeding: application of embryonic stem cells to ...
Crop species where in vitro techniques exist and can be used to mutate plant material, allows for the regeneration of large numbers of plantlets. This system is highly amenable to both vegetatively and seed propagated species. Mutation breeding in seed propagated species. Seeds treated with mutagenic agents give rise to chimeric plants.

20. Mutagenesis - PlantBreeding
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Book : In vitro plant breeding 2002 pp.xii + 167 pp. ref.many Abstract : This book, which consists of 14 chapters, presents the fundamental concepts and applied techniques of plant cell and tissue culture tissue culture Subject Category: Techniques, Methodologies and Equipment

In vitro plant breeding. - CAB Direct
Among the available biotechnologicaltools for crop breeding, genetic engineering based on introgression of genes that are known to be involved in plant stress response and in vitro selection through the application of selective pressure in culture conditions, for developing stress tolerant plants, have proved to be the most effective approaches [12].