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The book opens with a general introduction to plant breeding and a review of the development of mutation breeding, including consideration of the strengths and weaknesses of the technique. Chapters covering the underlying theory are followed by sections that consider more practical aspects such as in vitro techniques, techniques used for seed propagated crops and techniques used for vegetatively propagated crops.

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During the 1970s and 1980s, mutation breeding made a tremendous contribution to crop improvement. Now, as the techniques of molecular biology become more widely adopted by plant breeders, this...

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Duska Stojšin, "Mutation Breeding: Theory and Practical Applications.A. M. van Harten," The Quarterly Review of Biology 75, no. 3 (Sep., 2000): 323-324. [https://doi ...](https://doi...)

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Mutation Breeding: Theory and Practical Applications, by A. M. VAN HARTEN. xiv+353 pp. Cambridge: Cambridge University Press (1998). £75.00 or \$120.00 (hardback). ISBN 0 521 47074 9. - Volume 133 Issue 4 - A. J. WORLAND

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Book : Mutation breeding: theory and practical applications. 1998 pp.xiv + 353 pp. ref.39 pp. of Abstract : This book describes the role of mutation breeding in contemporary plant breeding plant breeding Subject Category: Techniques, Methodologies and Equipment

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Buy Mutation Breeding: Theory and Practical Applications ...

Mutation Breeding. "A knowledge of the laws of mutation must sooner or later lead to the possibility of inducing mutations at will and so of originating perfectly new characters in animals and plants. And just as the process of selection has enabled us to produce improved races, greater in value and in beauty, so a control of the mutative process will, it is hoped, place in our hands the power of originating permanently improved species of animals and plants."

20. Mutagenesis - PlantBreeding

During the 1970s and 1980s, mutation breeding made a tremendous contribution to crop improvement. Now, as the techniques of molecular biology become more widely adopted by plant breeders, this comprehensive summary sets mutation breeding in a contemporary context and relates it to other breeding techniques, including the most recently developed.

Mutation Breeding: Theory and Practical Applications ...

Mutation breeding, sometimes referred to as "variation breeding", is the process of exposing seeds to chemicals or radiation in order to generate mutants with desirable traits to be bred with other cultivars. Plants created using mutagenesis are sometimes called mutagenic plants or mutagenic seeds. From 1930 to 2014 more than 3200 mutagenic plant varieties were released that have been derived either as direct mutants or from their progeny. Crop plants account for 75% of released mutagenic specie

Mutation breeding - Wikipedia

Evolution and practical breeding both depend on genetic variation. Over the years since Darwin, naturalists and a diversity of scientists have learned how to create, detect, and utilize mutations. The development of genomics has

Plant Mutation Breeding and Biotechnology

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History of mutation breeding --3. Nature and types of mutations --4. Induction of mutations --5. In vitro techniques for mutation breeding --6. Mutation breeding in seed propagated crops --7. Mutation breeding in vegetatively propagated crops. Responsibility: A.M. van Harten. More information: Table of contents; Publisher description

Mutation breeding : theory and practical applications ...

Atomic gardening is a form of mutation breeding where plants are exposed to radioactive sources, typically cobalt-60, in order to generate mutations, some of which have turned out to be useful.

Atomic gardening - Wikipedia

In- and out-breeding depressions are commonly observed phenomena in sexually reproducing organisms with a patchy distribution pattern, and spatial segmentation and/or isolation of groups. At the genetic level, inbreeding depression is due to increased homozygosity, whereas outbreeding depression is due to inferior genetic compatibility of mates. Optimal outbreeding theory suggests that ...

Balancing in- and out-breeding by the predatory mite ...

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