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Duska Stojšin,

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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.”.

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During the 1970s and

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recently developed.

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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

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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

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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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Atomic gardening is a

form of mutation

breeding where plants

are exposed to

radioactive sources,

typically cobalt-60, in

order to generate

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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,

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inbreeding depression is due to increased homozygosity, whereas outbreeding depression is due to inferior genetic compatibility of mates. Optimal outbreeding theory suggests that ...

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