

## Biotechnology For Conservation And Utilization Of

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### Biotechnology For Conservation And Utilization

Biotechnology is presently used for the conservation, evaluation, and utilization of biodiversity particularly for important crops. 3 Biotech for Conservation At present, loss of specific species, groups of species (extinction) or decrease in number of particular organisms (endangerment) are taking place in different parts of the world at a rapid pace.

### Biotechnology for Biodiversity | ISAAA.org

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### The use of biotechnology for conservation and utilization ...

Biotechnology. The term 'biotechnology' (or biotechnologies) encompasses a broad range of technologies used for the characterization, conservation and utilization of genetic resources for food and agriculture. For example, molecular markers have been used in a variety of ways to characterize genetic resources, to identify priority genetic resources for conservation as well as to effectively manage ex-situ collections: in-vitro technologies can complement conventional conservation methods ...

### Biotechnology | Commission on Genetic Resources for Food ...

Role of biotechnology in conservation and utilization of agricultural biodiversity Kanupriya and V. Radhika\* Biological diversity provides the variety of life on the earth and agricultural diversity forms a part of it. Agricultural biodiversity refers to the variability among and between all forms of life relevant to food and agriculture.

### GENERAL ARTICLES Role of biotechnology in conservation and ...

Biotechnology, Biodiversity, and Sustainable Agriculture: A Contradiction? R. B. Singh1 This paper describes (1) the status of the use of biotechnology for conservation and utilization of biodiversity and interaction among them, (2) the status of use of biotechnology for sustainable agriculture, (3) how real

### Biotechnology, Biodiversity, and Sustainable Agriculture ...

Harnessing Biotechnology for Conservation and Increased Utilization of Orphan Crops Ranjana Bhattacharjee, Central Biotechnology Laboratory, International Institute of Tropical Agriculture (IITA), Ibadan, PMB 5320, Nigeria (Email: r.bhattacharjee@cgiar.org) Abstract

### Harnessing Biotechnology for Conservation and Increased ...

An advance made in biotechnology field such as in vitro culture technology, cryopreservation and molecular markers technology has generated significant contributions to improve the methods of conservation of rare and endangered plant genetic resources and traditional knowledge of germplasm and their valuable management in an effective way.

### Natural Resources Conservation and Research

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### (PDF) The implications of Biotechnology in Germplasm ...

Correspondence to: T Wang, Department of Biotechnology, College of Life Sciences, and Institute for Conservation and Utilization of Agro-bioresources in Dabie Mountains, Xinyang Normal University, Xinyang 464000, China, E-mail: tianwenw@gmail.com; or H Yuan, College of Life Sciences, and Institute for Conservation and Utilization of Agro ...

### Engineering substrate channeling in biosystems for ...

The National Centre for Genetic Resources and Biotechnology (NACGRAB) was established in 1987 by the Federal Ministry of Science and Technology (FMS&T) in to conduct research, gather data and disseminate technological information on matters relating to genetic resources conservation, utilization and biotechnology applications.

### Home [nacgrab.gov.ng]

DNA banking can be considered as a means of complimentary method for the conservation of plant species by preserving their genomic DNA at low temperatures. Such approach of preservation of biological information provides opportunity for researchers to search novel genes and its products.

### Biotechnological approaches for conservation and ...

biodiversity. Conservation also needs to rejuvenate the phenomena of information exchange at various levels so that one remains aware of the current status of the conservation criteria and of the endangered species. Microbes have several uses in biotechnology for production of new kinds of antibiotics, novel enzymes from

### CONSERVATION AND UTILIZATION OF MICROBIAL DIVERSITY

State Key Laboratory for Conservation and Utilization of Subtropical Agro-Bioresources, Guangzhou, China. Guangdong Laboratory for Lingnan Modern Agriculture, Guangzhou, China. College of Life Sciences, South China Agricultural University, Guangzhou, China. Search for more papers by this author

### Efficient CRISPR/Cas9-based plant genomic fragment ...

The Molecular Biotechnology Laboratory of NAST is one of the pioneers in DNA based Research since the year 2002. It is established with the aim to apply molecular and biotechnological diagnostic tools for conservation, characterization, and sustainable utilization of high value plant diversity of Nepal.

### Nepal Academy of Science and Technology (NAST)

Collecting, conservation and utilization of plant genetic resources and their international distribution are essential components of international crop improvement programs.

### Biotechnology and Conservation of Plant Biodiversity

In on-farm agro-biodiversity conservation as well as utilization farmers' informal seed systems play a significant role. In this informal seed system farmers' networks are important component through which seed and other genetic materials flow among the farming community members.

### Food Security through On-Farm Conservation of Agro ...

Biodiversity and Conservation Characterization and Utilization of Plants, Microbes, and Natural Resources for Sustainable Development and Ecosystem Management ... India, New Delhi. Her research interests are in environmental toxicology, environmental microbiology, and environmental biotechnology, and her scientific/community leadership has ...

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### The genome sequence of the orchid *Phalaenopsis equestris*.

(2020). Comprehensive analysis of SWEET family genes in *Eucalyptus* (*Eucalyptus grandis*) Biotechnology & Biotechnological Equipment: Vol. 34, No. 1, pp. 595-604.

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