Plantastic Discoveries

What is a

BANK

Plants

for the **FU** European Technology

gene bank?

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A gene bank is a facility that preserves and stores genetic material, such as seeds, tissues, or DNA samples, representing a wide variety of plant or animal species.



Why do we need gene banks?

Conservation of Genetic Diversity

important for maintaining resilience to environmental changes, pests, diseases

Plants

European Techno

2 Research and Development

gene banks provide valuable resources for scientific research

Preservation of Endangered Species

Emergency Response

In the event of natural disasters, wars, or other emergencies that may threaten the existence of plant varieties, gene banks serve as repositories that can be used for recovery and rebuilding efforts. 5 Support for plant breeding to develop new crop varieties

Global Collaboration

Many gene banks are part of international networks that facilitate the exchange of genetic material among regions. This helps ensure the global conservation of genetic resources. One of the most wellknown gene banks is the Svalbard Global Seed Vault



It is located deep inside a mountain in the Arctic Circle and serves as a global backup facility. The Vault stores duplicate samples from gene banks around the world to ensure our agricultural systems remain viable throughout the challenges we face.

> **4.5M** Variety capacity

1,214,827 Samples in the Vault

-18°C

Temperature required

Ask your questions to Plantastic Discoveries

Y Got questions about plant science & breeding? We've got answers!

Join Plant ETP's educational campaign to feed your curiosity! 🎽

Ask your questions here:



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https://www.sciencedirect.com/topics/agricultural-and-biological-sciences/gene-bank