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Plant DNA banks and the role in plant genomics

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The Australian Plant DNA Bank aims to preserve representative genetic information from Australian flora and cultivated species. The collection stores DNA from all accessions including rare species and species of economic importance. Information regarding the species in this collection is available at [www.dnabank.com.au](http://www.dnabank.com.au).

DNA Banks
- complementary to traditional germplasm and herbaria
- house material collected for the purpose of DNA extraction, genomic DNA and associated products from molecular based research.

Standardisation of DNA Banking
- global standardisation and international co-ordination of efforts
- address operational issues such as data storage and management, quality assurance and control
- compliance with international agreements and treaties governing access and transfer of samples to third parties for research.

DNA Banks and Plant Genomics
- Recent advances in genomics have provided techniques for efficient, large scale sample processing
- DNA banks can provide genomics programs with access to large collections of diverse material.

Benefits to research
- a central repository for the effective dissemination and exchange of genetic material from many sources
- a ready supply of DNA to support research involving gene expression, gene discovery, genotyping, marker development, assessment of diversity and phylogenetics.

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