Plant genetic resources

Plant genetic resources have the potential to significantly contribute to food security through the provisioning of traits that will allow crops to become more resilient and adaptive to changing climatic conditions and outbreaks of disease. The conservation of these resources is therefore of worldwide importance.

**CAB Abstracts** database covers the world literature on the genetic resources of all types of crops for both food and non-food uses. The global coverage of research ensures that information is available on crops grown from temperate to tropical regions of the globe.

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- **Genomic technologies**: genome sequencing and other technologies can determine the likely utility of the germplasm in crop improvement. Pan-genome analysis highlights the extent of genomic variation in cultivated and wild rice. *Nature Genetics*, 2018
  - Crop improvement using genome editing. *Plant Breeding Reviews*, 2018
- **Conservation of plant genetic resources**: correct management and maintenance of germplasm is essential for securing our future food supply. Development of an in situ conservation strategy for crop wild relatives. *Journal für Kulturpflanzen*, 2017
- **Utilization of plant genetic resources**: harnessing genetic variability present in crop wild relatives and underutilized crops is essential to develop crops that are more resilient to climate change and pests and diseases. Molecular characterization of sugarcane genotypes for cold tolerance. *Agricultural Research Journal*, 2018
- **Sustainable diets and nutrition**: understanding the nutritional quality of crops and diversifying the crops we eat could significantly improve health and nutrition. Diversifying crops for food and nutrition security – a case of teff. *Biological Reviews*, 2017
  - Comparative study of proximate, chemical and physicochemical properties of less explored tropical leafy vegetables. *Journal of Northeast Agricultural University*, 2018
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