# Cowpea Genetic Resources Contributions In Cowpea Exploration Evaluation And Research From Italy And The International Institute Of Tropical Agriculture

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### Cowpea Genetic Resources Contributions In

Several informative markers associated with quantitative trait loci (QTL) related to desirable attributes of cowpea were generated. Cowpea genetic improvement activities aim at the development of drought tolerant, phosphorus use efficient, bacterial blight and virus resistant lines through exploiting available genetic resources as well as deployment of modern breeding tools that will enhance genetic gain when grown by sub-Saharan Africa farmers.

### Cowpea (Vigna unguiculata): Genetics, genomics and ...

Get this from a library! Cowpea genetic resources : contributions in cowpea exploration, evaluation, and research from Italy and the International Institute of Tropical Agriculture. [N Q Ng; L M Monti; International Institute of Tropical Agriculture.;]

### Cowpea genetic resources : contributions in cowpea ...

Cowpea is a relatively drought and heat-tolerant crop that provides protein to nearly 200 million Africans and cash income to smallholder farmers (Thomson, 2008). The limited availability of genome resources for cowpea has contributed to the relatively slow development of higher yielding varieties adapted to tolerate abiotic and biotic stresses.

### Genome resources for climate-resilient cowpea, an ...

Genetic diversity research provides the basis of the genetic variation and genetic relationships among cowpea genotypes, thus providing information for the preservation and utilization of germplasm resources and improvement of cultivars [ 7 ].

### Genetic Diversity and Population Structure of Cowpea ...

Abstract. Cowpea, Vigna unguiculata (L.) Walp., is an important grain legume grown and consumed not only in the dry savannah areas of Sub-Saharan Africa but also in many other tropical and subtropical regions. It provides income, food and nutrition security to millions of people. Several studies have led to a better understanding of the taxonomy of cowpea and its wild relatives.

**Cowpea [ Vigna unguiculata (L.) Walp.] Breeding | SpringerLink**
Cowpea is a drought-tolerant food legume grown in the savannah regions of the tropics and subtropics. The International Institute for Tropical Agriculture (IITA) holds the world collection of 15,003 cultivated cowpea from 89 countries in its genebank.

**Cowpea [Vigna unguiculata (L.) Walp.] core collection ...**
The first five principal components showed 79.30% of the total variability among the genotypes. Pod length, leaf area, leaf area index and number of seeds per plant contributed mainly to PC1 and leaf number, plant height, dry biomass and fresh biomass contributed mainly to PC2.

**Genetic variability in cowpea (Vigna unguiculata (L.) Walp ...**
As a first step in the enhancement of mineral content in cowpea grains, several germplasm lines (1541) of different origins and obtained from the genetic resources unit at IITA were sown in the experimental field in Minjibir, Kano State, Nigeria. The grains were analysed for protein and nine mineral contents.

**Evaluation of cowpea germplasm lines for protein and ...**
( Vigna unguiculata ) Cowpea is a food and animal feed crop grown in the semi-arid tropics covering Africa, Asia, Europe, United States and Central and South America. It originated and was domesticated in Southern Africa and was later moved to East and West Africa and Asia. The grains contain 25% protein, and several v

**Cowpea - IITA**
Genetic diversity enables plants to adapt to new pests and diseases as well as to threats from climate change, drought, soil erosion, and more. Today, we are losing genetic resources at an unprecedented rate, while the world’s capacity to maintain food security decreases.

**Genetic Resources Center - IITA**
This study examined outcrossing rates and genetic structures in 35 wild cowpea (Vigna unguiculata ssp. unguiculata var. spontanea) populations from West Africa, using 21 isozyme loci, 9 of them showing polymorphism. Results. Outcrossing rates ranged from 1% to 9.5% (mean 3.4%), which classifies the wild cowpea breeding system as primarily selfing, though rare outcrossing events were detected in each population studied.

**Genetic structure and mating system of wild cowpea ...**
The cowpea (Vigna unguiculata) is an annual herbaceous legume from the genus Vigna.Due to its tolerance for sandy soil and low rainfall, it is an important crop in the semiarid regions across Africa and Asia. It requires very few inputs, as the plant's root nodules are able to fix atmospheric nitrogen, making it a valuable crop for resource-poor farmers and well-suited to intercropping with ...

**Cowpea - Wikipedia**
Key access and utilization descriptors for cowpea genetic resources. Bioversity International, Rome, Italy; National Bureau of Plant Genetic Resources, India; International Institute of Tropical Agriculture, Nigeria. Available here. Davis DW, Oelke EA, Oplinger ES, Doll JD, Hanson CV, Putnam DH. 1992. Cowpea.

**Cowpea - Gene Bank**
Genetic and Genomic Resources of Grain Legume Improvement is the first book to bring together the latest resources in plant genetics and

genomics to facilitate the identification of specific germplasm, trait mapping and allele mining to more effectively develop biotic and abiotic-stress-resistant grains. This book will be an invaluable resource ...

**Genetic and Genomic Resources of Grain Legume Improvement ...**

Cowpea (Vigna unguiculata (L.) Walp) is a highly nutritious grain legume crop in the world. However, cowpea production is constrained by legume pod borer (Maruca vitrata Fabricius) (LPB), which ...

**(PDF) Resistance to legume pod borer (Maruca vitrata ...**

ried out to assess the genetic diversity of cowpea. The gene pool organization of cowpea has been . widely studied in recent years, resulting in the ... Plant Genetic Resources Conservation Unit

**(PDF) Cowpea - ResearchGate**

The genetic modification of cowpea is an extremely complex undertaking that will involve contributions of many institutions and individuals. To prevent duplication in research, address gaps, and spur on the process, a mechanism is needed to coordinate and stimulate all necessary activities. NGICA is prepared to continue to assist in the process.

**Workshop on the Genetic Transformation of Cowpea**

Barley is well represented in genebanks. According to the FAO Report on the State of the World's Plant Genetic Resources for Food and Agriculture (FAO, 1996), barley is the second largest crop.With 8% of all six million accessions worldwide, barley comes only after wheat (13%) and is followed by rice (7%), maize (5%), Phaseolus (4%), soybean and sorghum (both 3%) (see Table 12.1).

**Genetic Resource - an overview | ScienceDirect Topics**

Unlike other legumes, cowpea lacks a published reference genome. A highly fragmented draft genome sequence assembly has been available from previous work since 2011 (harvest-blast.org; harvest-web.org) and is derived from 60x short-reads combined with BAC-end and gene survey Sanger sequences. This project will elevate the sequence of cowpea to state-of-the art by: (1) adding long-read sequences and an optical map; (2) anchoring contigs to a recently developed genetic map containing 37,372 SNPs;