



Genetic and Genomic Resources of Grain Legume Improvement: 12. Horsegram

R.K. Chahota, T.R. Sharma, S.K. Sharma, Naresh Kumar, J.C. Rana

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Horse gram is a pulse and fodder crop native to Southeast Asia and tropical Africa. India is the only country cultivating horse gram on a large acreage, where it is being used for human food. It is a versatile crop and can be grown from near sea level to 1800m. It is a drought-tolerant crop plant and can be grown successfully with low rainfall. Global efforts to conserve the horse gram germplasm are lacking, as the crop does not attract much notice. The US Department of Agriculture (USDA) Germplasm Resources Information Network (GRIN) conserved only 35 accessions of *Macrotyloma uniflorum* in its gene bank. Protabase (Plant Resources of Tropical Africa Database), responsible for germplasm conservation for African countries, has only 21 accessions in the National Gene Bank of Kenya. Australian Tropical Crops and Forages Genetic Resources Centre, Biloela, Queensland has 38 accessions of horse gram. In India, the National Bureau of Plant Genetic Resources (NBPGR), New Delhi, is a nodal agency for the collection, conservation and documentation of horse gram germplasm; a total of 1627 accessions of horse gram are conserved in its gene bank. About 1161 accessions were systematically characterized and evaluated during 1999–2004 in different research institutions in India. No information on genomic resources is available for horse gram. However, the genetic information available for much researched related legume species could be useful in linkage map construction and for tagging and mapping of useful genes.

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