
The Asian Vigna Genus Vigna Subgenus Ceratotropis Genetic Resources

the asian vigna: genus vigna subgenus ceratotropis genetic ... - the asian vigna: genus vigna subgenus ceratotropis genetic resources by norihiko tomooka national Institute of agrobiological sciences, tsukuba. lapan duncan a. vaughan natlollallnstitute of agrobiological sciences, tsukuba. japan. helen moss west vancouver, british columbia, canada and nigel maxted university of birmingham. **asian vigna genome research** - - 33 - asian vigna genome research kaga akito1, takehisa isemura1, takehiko shimizu2, praktik somta3, peerasak srinives3, satoshi tabata4, norihiko tomooka1 and duncan vaughan1 1. national ... **pollen morphology of asian vigna species (genus vigna ...** - pollen morphological studies of the genus are vigna deficient. vishnu-mittre and sharma (1962), in their study on indian pollen grains, investigated six species of the genus for the first time. later on, pollen vigna abstract: the pollen morphology of 22 asian [subgenus vignaceratotropis (piper) verdc.] species, including wild and cultivated **vigna genetic resources - genefrc.go** - 4. asian vigna cultigens (subgenus ceratotropis) six species have been fully domesticated from 21 species of asian vigna (subgenus ceratotropis). mung-bean (vigna radiata), black gram (vigna mungo) and moth bean (vigna aconitifolia) are considered to have been domesticated in india (tomooka et al., 2002, 2005 and 2006). **diversity and evolution of salt tolerance in the genus vigna** - research article diversity and evolution of salt tolerance in the genus vigna kohtaro iseki1*, yu takahashi2, chiaki muto2, ken naito2*, norihiko tomooka2 1 biological resources and post-harvest ... **the genetics of domestication of rice bean, vigna umbellata** - tbackground and aims the asian genus vigna, to which four cultivated species (rice bean, azuki bean, mung bean and black gram) belong, is suitable for comparative genomics. the aims were to construct a genetic linkage map of rice bean, to identify the genomic regions associated with domestication in rice bean, and to compare **collecting germplasm: a wild perspective** - the asian vigna in sri lanka. vigna hirtella 1. flora of ceylon. 2 wild species. vigna aridicola. near maha oya, botticaloa (sl-25) v. aridicola. sacred area, polonnaruwa (sl-22) 100 million tons of nitrogen fertilizer applied to agricultural land annually. 50 million tons of nitrogen fixed by legumes in **efficient hybridization procedure for better pod setting ...** - the asian vigna have become possible.3,4 among the several pulses grown, mung bean and urdbean are the important food legumes and grown throughout the year (kharif, rabi and summer seasons) in india. production constraints for enhancing the production of pulses at national level, mungbean and urdbean, being a short duration crop, appear to be a **1. genetics and breeding of resistance to bruchids ...** - genetics and breeding of resistance to bruchids (callosobruchus spp.) in vigna crops: a review peerasak srinives1*, praktik somta1 and chanida somta2 1department of agronomy, faculty of agriculture at kamphaeng saen, kasetsart university, nakhon parham, 73140 thailand 2asian regional center, avrdc-the world vegetable center, kasetsart **co-inoculation with rhizobium and plant growth promoting ...** - asian j agri biol, 2013, 1(1):17-22. 17 ... vigna radiata l. introduction in pakistan, mung bean has been cultivated on an area of 141 thousand hectares with a total production of about 93 thousand tonnes (anonymous, 2012). this average production is much lower compared to many areas of the world. ... **construction of a genetic linkage map and genetic analysis ...** - mungbean [vigna radiata (l.) wilczek] is one of the most important grain legumes in asian agriculture, particularly in south asia [1]. almost 90% of world's mungbean production comes from asia, and india is the world's largest producer [2]. mungbean is grown on about 4.2 million hectares in india with **identification of salt resistant wild relatives of ...** - magnitude of genetic diversity [1, 2]. the genus vigna is composed of more than 150 species originating mainly from africa and asia [3] which include a total of seven cultivated species of as cowpea (vigna unguiculata (l.) walp.), bambara groundnuts (vigna subterranea (l.) verdc.), mungbean (vigna radiata (l.) wilczek), urdbean **asian soybean rust - fsa-7531 - uaex** - asian soybean rust cliff coker introduction associate professor asian soybean rust is a serious kim hurst disease threat to arkansas and u.s. program associate soybean production. on november 10, 2004, the disease was confirmed in two soybean fields in louisiana and terry kirkpatrick shortly thereafter in mississippi, **salt tolerance in wild relatives of adzuki bean, vigna ...** - in asian vigna species, adzuki bean, mung bean and black gram are especially important as human food. as for mung bean and black gram, belonging to section ceratotropis, many studies of salt tolerance have been reported and some tolerant wild and cultivated accessions have been identified (mohamed andelkramany2005;sehrawatetal.2013;winetal. 2013).

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