

Management of walnut genetic resources to improve the efficiency of the breeding process in the South of Russia

Ilnur Balapanov^{1,}, and Larisa Artykhova²*

¹Federal State Budget Scientific Institution «North Caucasian Federal Scientific Center of Horticulture, Viticulture, Wine-making», 40-letya Pobedy Str., 39, 350901 Krasnodar, Russia.

Abstract. Walnut is one of the main nut crops of world importance. Conservation and efficient use of genetic resources is one of the fundamental principles of breeding work. The most efficient way to work with genetic resources is to create core collections that include most of the genetic diversity with the least number of samples in the collection. There are several different approaches to the creation of core collections, differing in the criteria for the selection of characters and the number of samples in the collection. This article provides an overview of the most effective approaches to creating walnut core collections in southern Russia. Of course, both genetic and phenotypic diversity should be taken into account. Microsatellite markers or SNPs may be the most appropriate tools for assessing genetic diversity, depending on the objectives and sample sizes. The article also provides an overview of the most valuable traits from the point of view of walnut breeding in the North Caucasus.

1 Introduction

Walnut is one of the most widespread crops in the world [1]. The largest walnut-producing countries are the USA and China [2]. The volume of walnuts production in the world is increasing annually. This is due to both the growth of the world's population and the growing needs of the population for nut crops with high nutritional value.

The basis for effective crop cultivation is assortment, the diversity and relevance of which is supported by breeding programs. Of course, artificial selection carried out by breeders can significantly reduce the genetic diversity of a culture, which negatively affects the potential of genetic collections as sources of new traits and their combinations [3].

Breeders in an effort to improve the phenotypic properties of genotypes rely on the genetic diversity of forms in collections. It can be concluded that genetic collections should be as large as possible. However, maintaining large collections is associated with high costs, phenotypic assessment of large collections is a laborious process that requires high labor costs of highly qualified specialists [3]. The most justified way is to create core

* Corresponding author: i-balapanov@rambler.ru

Characterization Genetic Breeding Resources Russia

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Characterization Genetic Breeding Resources Russia:

Characterization of Genetic Horse Breeding Resources in Russia Khrabrova Lyudmila,2015-12-11 The book is the result of summarization of data from the author s dissertation and the joint research work with colleagues on studying genetic peculiarities of 27 Russian horse breeds at microsatellite loci The private alleles were registered in some native breeds including Altai Bashkir Kabardian Mezen Pechora Vyatka and Yakut Native breeds of horses have a relatively high level of interbreed differentiation indicating the need of studying multiple subpopulations to complete information about the breed The author expresses the hope that the book will be useful for wide circles of specialists and readers interested in genetics of horse breeds

Breeding and Genetic Resources of Five-needle Pines ,2004

Wild Crop Relatives:

Genomic and Breeding Resources Chittaranjan Kole,2011-02-21 Wild crop relatives are now playing a significant part in the elucidation and improvement of the genomes of their cultivated counterparts This work includes comprehensive examinations of the status origin distribution morphology cytology genetic diversity and available genetic and genomic resources of numerous wild crop relatives as well as of their evolution and phylogenetic relationship Further topics include their role as model plants genetic erosion and conservation efforts and their domestication for the purposes of bioenergy phytomedicines nutraceuticals and phytoremediation Wild Crop Relatives Genomic and Breeding Resources comprises 10 volumes on Cereals Millets and Grasses Oilseeds Legume Crops and Forages Vegetables Temperate Fruits Tropical and Subtropical Fruits Industrial Crops Plantation and Ornamental Crops and Forest Trees It contains 125 chapters written by nearly 400 well known authors from about 40 countries

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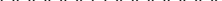
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