

BIOLOGICAL, MORPHOLOGICAL AND MOLECULAR CHARACTERIZATION OF A LOCAL ALBANIAN GRAPEVINE CULTIVAR 'GOMARESH'

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Abstract

Recently many efforts in the conservation of grapevine biodiversity have been undertaken such as the exploration of main regions of viticulture, establishment of National collection, on farm conservation and ampelographic characterization. The objective of this study was to provide agro-biological, morphological and molecular characterization of a local Albanian grapevine cultivar 'Gomaresh' through an integrated approach based on conventional ampelographic and molecular determinations. The description of the main morphological traits was performed by using the OIV standardized descriptors (OIV 2009). 48 characters of descriptor list (shoot, leaf, bunch and berry) were evaluated. Phenological data were recorded. All the activities were performed in three consecutive years, from 2012 to 2014. The genetic characterization was done through nuclear microsatellite analysis. DNA was extracted from frozen young leaves. For genotyping the following SSR-markers were used: VVS2, VVMD5, VVMD7, VVMD25, VVMD27, VVMD28, VVMD32, VrZAG62 and VrZAG79. The resulting description represents an example of useful information for promoting a sustainable use of grapevine genetic resources.

Keywords: *grapevine, characterization, morphological.*