

THE BIOLOGICAL VITICULTURE AND GENOTYPE FUNCTIONALITY

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Abstract. *The expected results in modern agriculture can be obtained by applying environmental technologies and taking into account the genotype functionality factor. Knowing the functional properties of the genotype and the use of environmental technologies for growing grapes, in the future it will be possible to create balanced, sustainable and diversified agroecosystems, which will guarantee the protection of natural resources, sustainable development of society and public health. The grape sector needs to create new grape varieties, with stable productive potential, to produce high-quality derived products. As a result of the crossing of the species *V. vinifera* L. ssp. *sativa* D.C. (2n=38) with *Muscadinia rotundifolia* Michx. (2n=40), root-specific genotypes of grapes were obtained, to which ecological cultivation technologies can be applied, for example: Malena, Nistryana and Algumaks as table varieties and Augustine, Alexandrina and Amethyst for fresh consumption and for processing.*

Keywords: biological products, genotype, environment, functionality, ecological viticulture.

Introduction

Society is developing steadily when it consumes high-quality products of natural origin, rationally uses natural resources, and the environmental impact is minimal. Environmental protection is a global problem that should become a national priority, since it directly relates to the living conditions and health of the population, achievement of economic interests, as well as opportunities for sustainable development of society [12, 13]. Sustainable development means that way of development of human society, which is aimed at meeting the needs of the current generation, without affecting the level and quality of life of future generations. Each generation should strive to satisfy its own needs, without leaving various generations of debts for future generations, including environmental ones - depletion of natural resources or pollution of soil, water, air, etc. [13].

Organic viticulture is becoming increasingly popular around the world. This trend is based on a system of technological methods aimed at maintaining the

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