



Cercetări privind caracterele biologice, morfologice și calitatea recoltei la specia *Amaranthus cruentus* L. în condițiile din partea centrală a Câmpiei Române

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In the Biobasis within USAMV-București Campus were made experiments with three cultivars of *Amaranthus cruentus*: Golden Giant, Bolivia 153 and Kinnouri Dhankar, coming from Germany and Slovenia. Biometric determination for cultivars of *Amaranthus cruentus* emphasized following morphological traits: height of 85.5-114.5 cm; 22-26 leaves; length of the inflorescence between 27.4-38.6 cm; seeds mass per plant of 14.5-21.4 g; TGW of 1.40 g. The productivity of *Amaranthus cruentus* cultivars was illustrated by yields of 21.0 q/ha for Golden Giant and 5.0 q/ha for Kinnouri Dhankar, data which illustrate an important adaptation capacity to the cropping condition in the Southern part of Romania and resistance to drought and high temperatures. The determination of chemical composition and yield quality for the *Amaranthus cruentus* cultivars emphasized the following aspects: proteins 14.89-16.23%; starch 60.24-61.54%; lipids 5.81-6.51%; cellulose 2.21-2.27%; ash 2.56-2.67%.