

EFFECT OF MEDIA COMPOSITION ON THE MULTIPLICATION RATE OF VARIOUS SWEET POTATO GENOTYPES

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Besides improper, not site- and/or cultivar-specific production technology, the uncontrolled quality and hygienical status of planting material can contribute to yield stability problems. Micropropagation has been suggested as a reliable technique for ensuring rapid propagation of healthy propagules. This work, therefore, sought to assess the multiplication rate of several sweet potato genotypes in different compositions of culture media. The experiment was laid in a Completely Randomized Design (CRD). In vitro multiplication rates were the following in the case of the genotypes involved, achieved on the MS0 and the MS1BN media: ‘Boribon’ (479 vs. 343), ‘Emmur’ (607 vs. 661), ‘Beauregard’ (549 vs. 170), ‘Covington’ (80 vs. 0), ‘Norangel’ (557 vs. 710), ‘Ásotthalmi12’ (475 vs. 325) and ‘Purple’ (867 vs. 111). The results suggest that a hormone-free medium tends to be most appropriate for sweet potato micropropagation. The research was supported by the “VP3-16.1.1-4.1.5-4.2.1-4.2.2-8.1.1-8.2.1-8.3.1-8.5.1-8.5.2-8.6.1-17” Rural Development Program, in connection with the grant document with the identification number 1924527185.



110 ÉVE AZ OKTATÁS ÉS A TUDOMÁNY SZOLGÁLATÁBAN, 100 ÉVE SZEGED ÉS A RÉGIÓ FEJLŐDÉSÉÉRT.

SZTE SZEGEDI TUDOMÁNYEGYETEM
UNIVERSITY OF SZEGED



21st WELLMANN INTERNATIONAL SCIENTIFIC CONFERENCE

BOOK OF ABSTRACTS



18th April 2024
Hódmezővásárhely

University of Szeged Faculty of Agriculture Hódmezővásárhely (Hungary)
Banat's University of Agricultural Sciences and Veterinary Medicine "King Michael I of Romania" from Timisoara
Faculty of Management and Rural Tourism (Romania) Hungarian Academy of Sciences
Regional Committee in Szeged (Hungary)
Foundation for Agricultural Modernization and Rural Development, Hódmezővásárhely (Hungary)

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University of Szeged Faculty of Agriculture
18th April 2024

**Published by: University of Szeged Faculty of Agriculture Andrassy út 15.
6800 Hódmezővásárhely, Hungary**

Responsible publisher:

Edit Mikó dean

Executive editors:

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ISBN 978-963-306-980-6