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Change of phytoalexins stilbenoids of vine trunk Tavkveri variety (Vitis vinifera L.) in condition crown gall infection

M.Bezhuashvili

Institute of Viticulture and Oenology of the Agricultural University of Georgia, Kakha Bendukidze University Campus

Abstract

It is studied correlation of phytoalexin stilbenoids in Georgian red grape variety – Tavkveri stamps, healthy and infected by bacterial cancer . Reaserch examples were taken in Kartli region (east part of Georgia) Meadow Cinnamonic type of soil from 7 years old vineyards. Fractions of stilbenoids were isolated from the stamps by ethylacetate and then analyzed by HPLC/MS method. It is established content of phytoalexin resveratrol and its derivatives in healthy and infected by bacterial cancer stamps. It is carried out stress-metabolite stilbenoids compare to physiological concentration of stilbenoids with infected Stilbenoids. Among the above mentioned stilbenoids dominates transresveratrol, which concentration is increasing in condition of bacterial cancer diseased grapes. Received results for the vine Tavkveri are scientific novelty and important data for the correlation of the immunity of grapevine with pfytoalexin-stilbenoids. This work was supported by Shota Rustaveli National Science Foundation of Georgia(SRNSFG) [grant number FR 17_486].

Biography :

Bezhuashvili started his career at the Georgian Foreign Ministry in the early 1990s, including being the Envoy Plenipotentiary and Extraordinary to Kazakhstan between 1993 and 1996. Throughout the 1990s, he was also actively involved in cooperation with the Council of Europe (CoE) and served as a chief negotiator at the accession of Georgia to the CoE in 1999. He then served as deputy Defense Minister from 2000 to 2004, and Defense Minister from February 2004 to June 2004, being the first civilian to be appointed to this post in post-Soviet Georgia. From June 2004 to October 2005, he was the Secretary of the National Security Council of Georgia, and replaced Sbialome Zourachvili as Minister of Foreign Affairs on October 19, 2005