

The stress-metabolite stilbenoids of grape skin saperavi variety (*Vitisvinifera* L.) in condition of Powdery mildew

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ABSTRACT: The stress-metabolite stilbenoids of grape skin saperavi variety (*Vitisvinifera* L.) have been investigated in condition of Powdery mildew (Uncinulanec.). The study was carried on healthy and infected grapes skins from the vineyard cultivated in eastern Georgia (Telavi). Vine age is....old year, soil type Study samples were taken at the end of July. The stress metabolite stilbenoids and their quantitative variability are determined by HPLC/MS method. Specifically, an increase the concentrations of the following stilbenoids were identified: for trans-resveratrol 30,52mg/kg-55,70mg/kg, for trans-epsilon-viniferin 9,23mg/kg 31,35mg/kg, for trans-piceid 4,31mg/kg-8,75mg/kg, for trans-astringin 3,22mg/kg-5,75mg/kg, for cis-piceid 4,67mg/kg - 5,78mg/kg and for trans-piceatannol 2,73mg/kg - 7,83mg/kg. Obtained results are important for the determination of Saperavi grape variety immunity with phytoalexin stilbenoids..



Biography: M. Bezhuashvili's research while affiliated with Agricultural University of Georgia and other places. University Campus, # 240 David Aghmashenebeli Alley, Tbilisi, Georgia m.bezhuashvili@agruni.edu.ge

Publications:

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