## Insights in Aquaculture and Biotechnology: Open Access



## or as a second

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

MagdanaSurguladze

KakhaBendukidzeUniversity,Georgia. m.bezhuashvili@agruni.edu.ge

**Abstract:**The stress-metabolite stilbenoidsof 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 15 old year, soil type- cinnamonic .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-30,52mg/kg-55,70mg/kg, for transepsilon-viniferin 9,23mg/kg 31,35mg/kg, for transpiceid 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 phytoalexinstilbenoids.



**Biography:** MagdanaSurguladze is Wine making technologist, master degree-2002, PHD student in Agricultural University of Georgia-2019, Reaserch issue is study of Biologically active stilbenoids in vine and wine.

**Publications:** 1. Change of Phytoalexins- Stilbenoids of grape skin Tsolikouri variety (Vitisvinifera L.) in condition Grey mildew

2. Histological and biochemical criteria for objective and early selection of grapevine cultivars resistant to Plasmoparaviticola.

International conference on Agriculture sciences and farming technology, August 26-27,2020, Osaka, Japan.

MagdanaSurguladze, The stress-metabolite stilbenoidsof grape skin saperavi variety (Vitisvinifera L.) in condition of Powdery mildew, Agri farm 2020, August 26-27,2020, Osaka, Japan