



INTERNATIONAL CONGRESS ON NATURAL, HEALTH SCIENCES AND TECHNOLOGY

BOOK OF ABSTRACTS



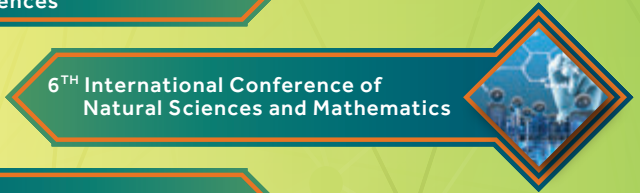
9TH International Balkan
Conference in Sport Sciences



8TH International Scientific
Conference on Applied Sciences



7TH International Scientific
Conference of the Faculty of
Medical Sciences



6TH International Conference of
Natural Sciences and Mathematics



4TH International Conference of
Food Technology and Nutrition



2ND International Conference on
Sustainable Agriculture Farming
Systems

15 – 17 May, 2024
Tetova, North Macedonia



**International Congress on Natural, Health Sciences
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- **9th International Balkan Conference in Sport Sciences**
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- **7th International Scientific Conference of the Faculty of Medical
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- **6th International Conference of Natural Sciences and
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- **4th International Conference of Food Technology and Nutrition**
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**2nd International Conference on Sustainable
Agriculture Farming System**

EFFECTIVENESS OF PREVENTIVE FUNGICIDE TREATMENTS IN CONTROLLING PLASMOPARA VITICOLA OUTBREAKS

Gligor BOJKOV*, Sasa MITREV, Emilija ARSOV

Goce Delcev University, Faculty of Agriculture, Department for Plant and Environmental Protection, UNILAB laboratory, Stip, R. North Macedonia

*Corresponding author: email: gligorbojkov@yahoo.com

Abstract

The effectiveness of preventive fungicide treatments in controlling outbreaks of *Plasmopara viticola* (Berk. & M.A. Curtis) Berl. & De Toni, was tested on experimental grapevine plots in Smilica, Kavadarci, Republic of North Macedonia, during the spring-summer of 2023, characterized by high humidity and abundant rainfall. Two variants were implemented: (i) a control plot and (ii) a plot with a preventative fungicide treatment. The Climate Forecast System Reanalysis (CFSR) is a climate dataset used for intraday climate predictions of rainy weather, where chemical treatments were carried out immediately before the onset of precipitation as a necessary measure for plant protection. This forecasting model was enhanced by incorporating data from experimental vineyard plots on disease incidence and fungicide efficacy, in addition to weather data. ANOVA analysis of data on the efficacy of fungicides from both experimental plots showed statistical significance ($P < 0.007$).

Keywords: *Plasmopara viticola*, outbreaks, preventive fungicide treatments, ANOVA analysis, fungicide efficacy.

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