

Unlocking the Potential of Wine Industry By-products: Polyphenol-Rich Waste Materials for Pharmaceutical and Food Applications

Ing. Michaela Ottová, doc. Ing. Olga Mařátková, Ph.D., UCT Prague

The wine industry's waste materials hold significant potential for further utility in pharmaceutical and food industry. By-products like grape pomace, stems, and canes are rich in bioactive compounds, especially polyphenols, known for their health benefits, including effects on the microbiome. This study assessed the preparation of ethanolic extracts from *Vitis vinifera* waste products. The content of polyphenols, antioxidant activity and antimicrobial/prebiotic effects were studied.