

## Machining effect of the blade position and rotor speed of centrifugal separator on Grape Marc separation performance

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The use of a centrifugal separator was evaluated to separate the seeds from fresh marc after wine making process and to identify the best setting of the machine. Five different reels speed rotation (480, 576, 687 and 842rpm) and two different blades adjustments (Type-A blade = 1.5 mm and Type-B blade = 8.5 mm) have been evaluated, at the same mass flow rate (350kg h<sup>-1</sup>). Results showed that using a centrifugal separator for the seeds separation from the fresh grape marc is possible, reaching by setting the optimal rotation speed of the reel (480rpm) and the best distance between blades and cylinder (8.5mm - Type-B blade).

### Speaker Biography

Alessandro Leone is an Associate Professor in agricultural mechanics and food processing plants, SAFE department, engineering area, University of Foggia, where he teaches mechanics and mechanization in agricultural, food engineering and work safety. His major research topics are, in food processing plants: agro-food industry plants and process settings, processing logic control, recovery of agro-food waste by-products to useful composts in agriculture, as well as waste management and in agricultural mechanics: Analysis of the vibrations transmission mode from the vibrating heads to the trunk of olive trees and subsequent optimization; study, design of mobile elevating work platforms; safety devices on tractors and machinery

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