



# EFFECT OF EXTRA VIRGIN OLIVE OIL POLYPHENOLS PATTERN ON ANTI-INFLAMMATORY ACTIVITIES: ANALYTICAL ASPECTS

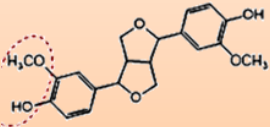
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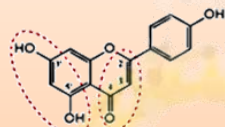
## INTRODUCTION

The anti-inflammatory activity of EVOO polyphenols in chronic inflammatory diseases is extensively demonstrated by several studies. However, only some of them associated their anti-inflammatory activity to the chemical composition. Therefore, the aim of this work is to study the analytical aspects of Extra virgin olive oil extracts polyphenolic pattern in order to correlate them on anti-inflammatory activities on of BMDCs (Bone Marrow-derived Dendritic Cells).

Pinoresinol



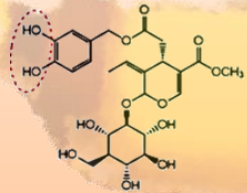
Apigenin



## METHODS

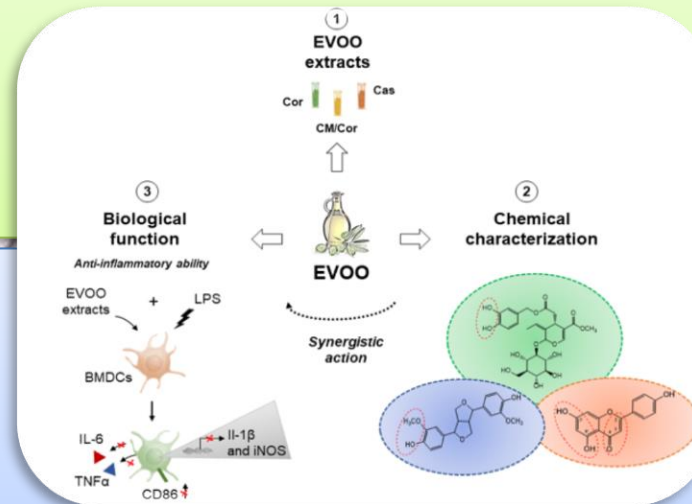
The characterization of EVOO extracts was performed by HPLC-UV-MS/MS analyses which allowed to identify 32 phenolic compounds.

Oleuropein



## RESULTS:

Good correlation between the chemical characterization of EVOO extracts and their biological functions in terms of anti-inflammatory activity.



## CONCLUSION:

A specific EVOO polyphenols combination could be crucial to induce the biological effects.

