

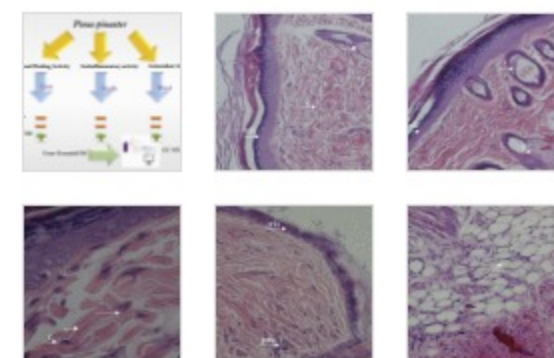


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Research on the antioxidant, wound healing, and anti-inflammatory activities and the phytochemical composition of maritime pine (*Pinus pinaster* Ait)

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Abstract

Ethnopharmacological relevance

Ethnobotanical investigations have shown that the *Pinus* species have been used against rheumatic pain and for wound healing in Turkish folk medicine.

Material and methods

In this study, phytochemical composition, antioxidant, anti-inflammatory, and wound healing activities of Maritime Pine (*Pinus pinaster* Ait.) that is collected in Turkey are investigated. Essential oil composition and the amount of extracts (lipophilic and hydrophilic) of maritime pine wood and fresh cone samples had been tested.

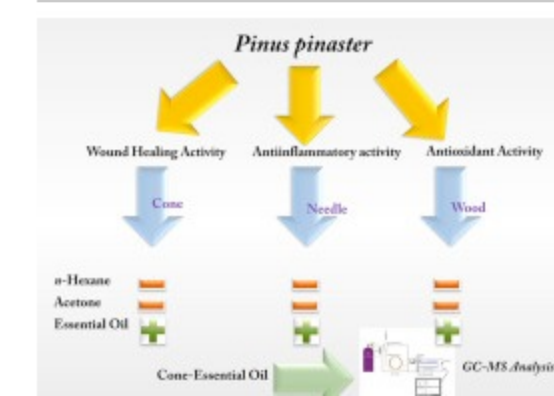
Results

The essential oil from cones of *P. pinaster* revealed the highest activities, whereas other parts of the plant did not display any appreciable wound healing, anti-inflammatory, or antioxidant effects. α -Pinene was the main constituent of the essential oil obtained from the cones of *P. pinaster*.

Conclusion

Experimental studies shown that *P. pinaster's* remarkable anti-inflammatory and wound healing activities support the traditional use of the plant, and suggest it could have a place in modern medicine.

Graphical abstract



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