

Anti-inflammatory activity of sandalwood seed oil

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Abstract

Xymenynic acid is the supercritical carbon dioxide extract of seeds kernel oil of Santalum album. This oil is a rich source of fatty acid known as Xymenynic acid. The major fatty acid in Sandalwood Seed Oil is oleic acid as commonly found in many seed oils used for skin care. Xymenynic acid which shows the effective anti-inflammatory action because of the reaction between enzymes and arachidonic acid are found to bind at their saturated 9th position of long chain fatty acids which are usually a double bond. When arachidonic binds to acid Xymenynic acid it does so irreversibly this binding is unable to convert or detach. This action hinders the entire local inflammation process of producing prostaglandin mediators and other downstream products of the arachidonic acid pathway. There are some therapeutic agents are present which block this process, but very few are in the form of a natural lipid which is readily absorbed trans-dermally and distribute similar to the prostaglandin precursor arachidonic acid. Hence Xymenynic acid is an established anti-inflammatory lipid. Results from the many research studies are reported and suggest Xymenynic acid shows anti-inflammatory activity. Therefore, Xymenynic acid is an outstanding candidate for managing inflammation.

Speaker Publications:

1. "Modeling the distribution of the critically endangered Forest Owlet Heteroglaux blewitti in India"; Journal of the Bombay Natural History Society/Volume112/Issue 2
2. "Ecosystem Based Adaptation: Mainstreaming Biodiversity in Watershed Development";
3. "Unusual Congregation of Savanna Nightjar Caprimulgus affinis in a Wheat Field"; Journal of the Bombay Natural History Society/ Volume 111/Issue 2
4. "A review of "Discovery of possible hybrid of the Critically Endangered Forest Owlet Athene blewitti and Spotted Owlet Athene brama from northern Maharashtra""; Journal of Threatened Taxa/Volume 3/ Issue 2
5. "Reassessment of the status of Forest Owlet in its known distribution and evaluation of conservation issues"

[8th International Conference and Expo on Pharmacognosy, Medicinal Plants and Natural Products](#); Webinar- October 21-22, 2020.

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Biography:

Dr. Dharmaraj Patil, MD is a Internal Medicine Specialist in Alpharetta, GA and has over 47 years of experience in the medical field. He graduated from Karnatak Medical College medical school in 1973. He is affiliated with medical facilities Emory Johns Creek Hospital and Wellstar North Fulton Hospital. He has indicated that he accepts telehealth appointments.