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Short Communication

Anti-inflammatory and sedative activities of *Peperomia galioides*: in vivo studies in mice

Isabel Wilches, Priscila Jiménez-Castillo, Nancy Cuzco, M. Victoria Clos, Francesc Jiménez-Altayó, Eugenia Peñaherrera, ...show all

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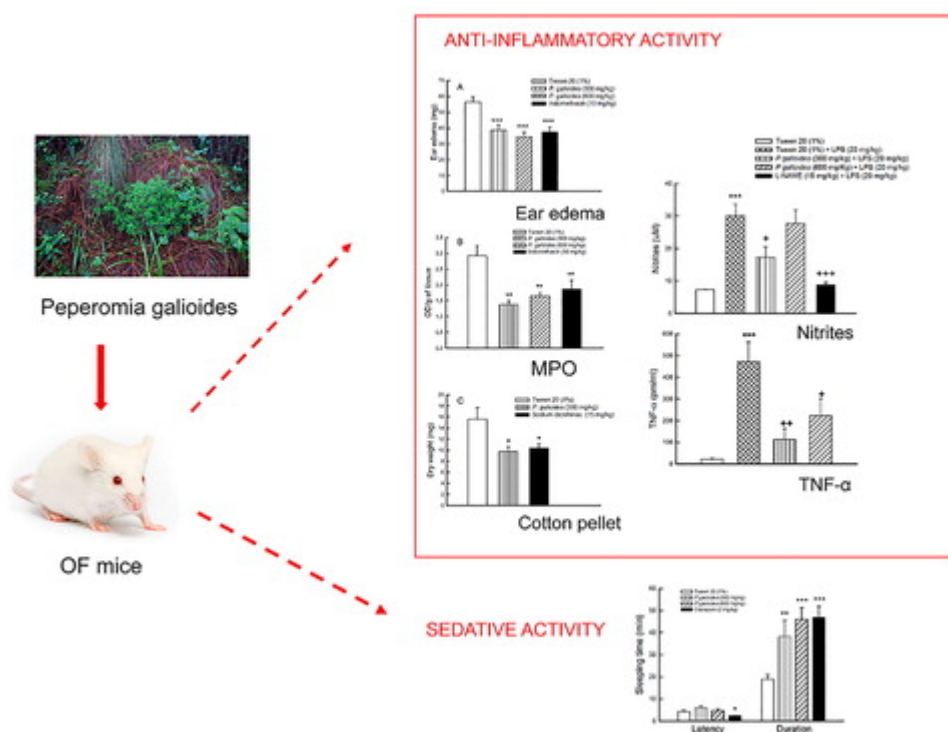


Abstract

Aerial parts (leaves, flowers, stem) of *Peperomia galioides* extract administered to mice, was used to confirm its anti-inflammatory and sedative folk uses. The anti-

inflammatory activity was assessed by croton oil-induced ear oedema and myeloperoxidase (acute inflammation); cotton pellet-induced granuloma (sub-acute

inflammation) and *Escherichia coli* Lipopolysaccharide (LPS) induced inflammation (cellular mediators). The sedative activity was studied by the pentobarbital-induced sleeping time test. Single doses (300 and 600 mg/kg; i.p.) of the extract reduced croton oil-induced ear oedema and myeloperoxidase activity. Six days administration of the extract (300 mg/kg, i.p.) to mice implanted with cotton pellets diminished granuloma formation. LPS (20 mg/kg, i.p.) enhanced plasma nitrites and TNF- α levels that were inhibited by the extract. The duration but not the onset of sleeping time was enhanced by 300 and 600 mg/kg of the extract. Our results show that *P. galioides* has anti-inflammatory and sedative activities in mice, which validates its traditional use.



Keywords: anti-inflammatory, sedative activity, *Peperomia galioides*, mice models

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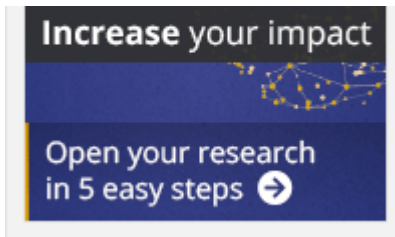
Disclosure statement

No potential conflict of interest was reported by the authors.



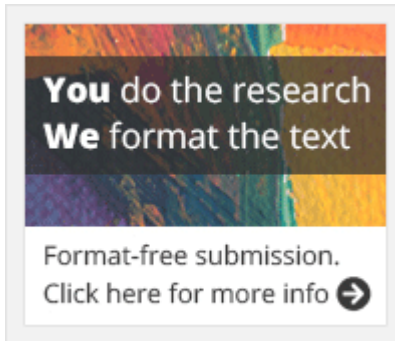
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