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Protective effect of *Sesbania grandiflora* on acetic acid induced ulcerative colitis in mice by inhibition of TNF- $\alpha$  and IL-6

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ACCEPTED MANUSCRIPT

**protective effect of *Sesbania grandiflora* on acetic acid induced ulcerative colitis in mice**  
by inhibition of TNF- $\alpha$  and IL-6

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**Abstract**

***Ethnopharmacological relevance:***

The plant *Sesbania grandiflora* (Linn) belonging to the family Fabaceae is commonly known as sesbania, agathi, and katurai. The plant is accredited for alleviating a spectrum of ailments including inflammation, colitis, diarrhea, dysentery, leprosy, gout, rheumatism, jaundice, bronchitis, convulsion and anxiety. It is also used as antitumour, anthelmintic, and laxatives in Ayurveda and Siddha system of Indian traditional medicine.

***Aim:***

To reveal protective effect of *Sesbania grandiflora* in acetic acid induced ulcerative colitis in mice.

***Materials and method:***

Polyphenol, flavonoid and flavanone contents of different extracts of *S. grandiflora* leaves were quantified and correlated with their antioxidant capacity *in-vitro* (DPPH assay) for identification of potential fraction. In further studies hydroalcoholic extract (HASG, 100 and 200 mg/kg) was evaluated for protective effect towards acetic acid induced ulcerative colitis

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