

*Adv. Pharmacol. Toxicol. 12 (1) 2011, 61-70*  
*ISSN - 0973 - 2381*

**ANTI-INFLAMMATORY AND ANTI-ARTHRITIC ACTIVITY  
OF *SESBANIA GRANDIFLORA* AND *SESBANIA SESBAN*  
BARK IN RATS**

**R. B. Patil, B. K. Nanjwade\*<sup>1</sup> and F. V. Manvi<sup>1</sup>**

A.R. A. College of Pharmacy, NAGAON, Dhule-424006, Maharashtra, India.

1 K.L. E. S's College of Pharmacy, BELGAUM, J90010, Karnataka, India.

In the present study we have examined the effects of prophylactic administration of extracts of bark of *Sesbania grandiflora* and *Sesbania sesban* on the development of carrageenan induced paw oedema and adjuvant - induced arthritis to assess influence of high NO level in the form of exogenous herbal extracts of bark of *Sesbania grandiflora* and *Sesbania sesban* in the progress of inflammation. Inflammation was assessed by measuring paw swelling. Increased paw oedema of the injected paw measured on 1<sup>st</sup> to 12<sup>th</sup> hrs which is feature of carrageenan induced inflammation was significantly reduced after prophylactic administration of petroleum ether, chloroform and methanol extracts of bark of *Sesbania grandiflora* (300mg/kg b.w. p.o.) and *Sesbania sesban* (300mg/kg b.w. p.o.) and arthritis was assessed by measuring primary and secondary paw swelling and changes in thymus, spleen and body weight. Increased swelling of the non injected paw (secondary paw) measured on days 14 and 21, injected paw swelling (primary paw) measured on days 3, 14 and 21, splenomegaly, thymic involutions and loss in body wt. which are features of adjuvant- induced arthritis were effectively reduced after prophylactic administration of extracts of bark of *Sesbania grandiflora* and *Sesbania sesban* . We have also claimed that exposure to extracts of *Sesbania grandiflora* and *Sesbania sesban* during inflammation process may be modulate the inflammation process due to presence of the isolated triterpenoidal compounds.