

P209

IN VIVO ANTI-INFLAMMATORY ACTIVITIES OF CENTAUREA CALOLEPIS BOISS. AND CNICIN AGAINST VIPER VENOM INDUCED-INFLAMMATION

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In snake bite cases, general findings are various systemic and local effects including necrose, haemorrhage, pain and local edema. The Ottoman Viper, *Montivipera xanthina* (Gray, 1849) (Viperidae), whose venom could be haemolytic and cytotoxic, is distributed in Middle, South and West Anatolia [1].

Different *Centaurea* L. species (Asteraceae) are used for tonic, expectorant, antipyretic, antidiarrheal effects and treatment of snake bites in Anatolian traditional medicine [2,3]. *C. calolepis* Boiss. is an endemic species, distributed in West and South-West Anatolia. Chloroform extract of plant and its major compound cnicin, a sesquiterpene lactone, showed strong anti-inflammatory activity in-vitro and in-vivo experiments [4,5]. The aim of this study was to determine anti-inflammatory activities of *C. calolepis* and cnicin against *Montivipera xanthina* venom induced-edema in rat.

C. calolepis chloroform extract and cnicin were applied to Wistar rats per orally in different doses. Snake venom (37.5 µg/paw) was injected into hind paw, measured by plethysmometer at ½, 1, 2, 3 and 4 h and determined percent of edema increasing. Indomethacin was used as positive control. 10 mg/kg of cnicin (28.31%) and 25 mg/kg of chloroform extract (11.12%) showed stronger anti-inflammatory effect than standard agent indomethacin (38.27%) at ½ h.

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Dear Colleagues,

On behalf of the organizing committee, it is my great honor and privilege to invite you to the 2nd International Gazi Pharma Symposium Series (GPSS-2017), which will be organized by Faculty of Pharmacy, Gazi University in Ankara (Turkey) in October 11-13, 2017. Being a biennial symposium, the first series of Gazi Pharma Symposium was successfully held in 2015 in Antalya (Turkey).

Discovery and development of drugs against human diseases involve a wide range of scientific approaches of pharmaceutical sciences. Therefore, the intention of GPSS-2017 is to emphasize the important roles of all fields related to the drug discovery and development process and also provide a wide platform for international collaboration and communication in the interdisciplinary fields of pharmaceutical sciences by bringing the experts together from all over the world. The scientific program includes plenary lectures as well as oral and poster presentations delivered by all partners contributing to all fields of pharmaceutical sciences.

We sincerely hope that this symposium will meet your expectations and stimulate new collaborations. Looking forward to welcoming you in Ankara, the capital of Turkey.

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