JORNADAS IBÉRICAS DE **TOXICOLOGIA**

# DESAFIOS DA TOXICOLOGIA

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DESAFÍOS DE LA TOXICOLOGÍA

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# P018- HISTOLOGICAL LESIONS IN HPV16-TRANSGENIC MODEL: THE EFFECT OF HIDROETHANOLIC EXTRACT OF LAVANDULA PEDUNCULATA (MILL.) CAV.

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The K14HPV16 mice is a skin squamous carcinoma model that can be used to test antitumoral properties of several chemical and natural compounds1. Lavandula penduculata (Mill.) Cav., known as lavender, belongs to the Laminaceae family and has been used in traditional medicine as infusions to treat several conditions2. This work aimed to evaluate the effects of the hydroethanolic French lavender extract (FLE) in an HPV16-transgenic mice model lesions.

The extract was obtained through a maceration with ethanol/water (80:20, v/v) and its phenolic composition was determined by HPLC-DAD-ESI/MS. The FLE was dissolved in drinking water at 6.8 mg/10mL/animal and the animals were supplemented during 29 consecutive days. Twenty-eight male mice were randomly divided into four groups: (n=7/group): group I (HPV16- control); II (HPV16- FLE); III (HPV16+ control) and IV (HPV16+ FLE). After 29 days all animals were sacrificed by xylazine-ketamine overdose following cardiac puncture to obtain blood samples. Skin samples (chest and ear), kidney, liver and spleen were processed for histological analysis.