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Cytotoxic Effect And Chemical Composition

The subject of this article was to evaluate the chemical composition, antimicrobial and cytotoxic effect of *Stachys koelzii* essential oil and its main components against *Prevotella intermedia*. GC-FID and GC-MS analysis were used to determine the chemical composition.

Chemical composition, cytotoxic effect and antimicrobial

...

Its cytotoxic effect was evaluated by MTT assay. Essential oil with main components of α -pinene, trans-caryophyllene and 1,8-cineole inhibited *P. intermedia* with MIC and MBC values of 0.1 and 0.2 mg/mL.

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Chemical composition, cytotoxic effect and antimicrobial

...

The chemical composition, anti-inflammatory, cytotoxic and antioxidant activities of essential oil from leaves of *Mentha piperita* (MEO) grown in China were investigated. Using GC-MS analysis, the chemical composition of MEO was characterized, showing that it was mainly composed of menthol, menthone and menthyl acetate.

Chemical Composition and Anti-Inflammatory, Cytotoxic and ...

cytotoxic effect on both human cancer cell line, MCF-7 and MDA-MB231. This cytotoxic activity could be attributed to the presence and the concentration of tomentosin, inulinolide and isocostic...

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Cytotoxic Effect and Chemical Composition of Inula viscosa ...

Cytotoxic Drugs Most of the time the term "cytotoxic" refers to the effect that a chemotherapy drug has on cancer cells. In this sense, a cytotoxic agent may be differentiated from one that is cytostatic. A cytostatic medication would, in contrast, inhibit cell division and growth but would not result in cell death directly. 3

Cytotoxic: Definition, Agents, Effects, and Precautions

The major constituents were identified as palmitic acid (19.2 %), hexahydrofarnesyl acetone (5.2 %), linoleic acid (4.8 %), β -caryophyllene (3.5 %) and cedren-8-en-15-ol (3.1 %). The antibacterial activity was evaluated by the disc agar diffusion and micro-broth dilution assays.

Chemical Composition, Antibacterial, Cytotoxic and ...

The chemical composition of essential oils is often variable

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among different plants and even between different plant parts.
... The evaluation of the cytotoxic effect of the essential oils is based on the reduction of MTT (3-[4,5-dimethylthiazol-2-yl]-2,5-diphenyl tetrazolium bromide),
...

Evaluation of the cytotoxic effect and antibacterial ...

Chemical composition, antioxidant, antimicrobial and cytotoxic activities of Tagetes minuta (TM) essential oil (TMO) and Ocimum basilicum (OB) essential oil (OBO) were examined. The main components for TMO were dihydrotagetone (33.9%), E-ocimene (19.9%), tagetone (16.1%), cis - β -ocimene (7.9%), Z-ocimene (5.3%), limonene (3.1%) and epoxyocimene (2.03%).

Chemical composition, antioxidant, antimicrobial and ...

In this research, we determined the chemical composition of the studied ROEO, its antibacterial, antibiofilm and cytotoxic

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activities. Various studies have been interested in the chemical composition of the ROEO from different countries. The results of ROEO composition are approximately in accordance with those found by Miladi et al. . They ...

Chemical composition, anti-biofilm activity and potential

...

The investigation was designed to determine the chemical composition, antioxidant and cytotoxic effects of the leaf essential oil of *Eucalyptus globulus* Labill grown in Nigeria. Fresh leaves of *E. globulus* on steam distillation yielded 0.96 % (v/w) of essential oil. Investigation of the oil on

Chemical composition, antioxidant and cytotoxic effects of ...

The main components were 1,8-cineole (23.56%), camphene (12.78%), camphor (12.55%) and β -pinene (12.3%). The

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antibacterial activity of ROEO was evaluated by micro-dilution method. The oil exhibited inhibition and bactericidal effect against two strains: Staphylococcus aureus ATCC 9144 and Staphylococcus epidermidis S61.

Chemical composition, anti-biofilm activity and potential

...

Carpodesmia tamariscifolia is a brown alga rich in (poly)phenols with important cytotoxic and antioxidant effects. However, the relationship between its chemical composition and its effects is unknown. The aim of this study is to identify the potential compounds and mechanisms responsible for its main effects.

Redox-Active Phenolic Compounds Mediate the Cytotoxic and ...

ABSTRACT. This paper reports on the chemical composition, the in vitro antischistosomal effects, and the cytotoxicity of the

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essential oil from the leaves of *Lavandula angustifolia* Mill., Lamiaceae, grown in the Southeastern Brazil. Borneol (22.4%), epi- α -muurolol (13.4%), α -bisabolol (13.1%), precocene I (13.0%), and eucalyptol (7.9%) were the major essential oil constituents.

Chemical composition, antischistosomal and cytotoxic ...

Pimenta Inada et al. (2020) investigated the effect of pressurization and dehydration on the chemical composition of jabuticaba peel and seeds. None of these studies reported the protection of human red blood cells (erythrocytes) nor information on the cytotoxic effects of an optimized seed extract on cancerous cells.

Response surface optimization of phenolic compounds from ...

Methods. The phytochemical composition of acetone, aqueous

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and ethanol extract of cladodes of *Opuntia stricta* (Haw), as well as the vitamins A, C and E of its dried weight cladodes and the antioxidant activities, were evaluated using standard in vitro methods. The anti-inflammatory and cytotoxic activities were evaluated using cell-based assays.

Chemical composition, antioxidant, anti-inflammatory, and ...

Osteosarcoma (OSA) is a type of bone cancer showing an aggressive biological behavior with metastatic progression. Because propolis potential for the development of new antitumoral drugs has been indicated, we evaluated the chemical composition of Colombian propolis samples and the mechanisms involved in their cytotoxic effects on OSA cells.

The chemical composition and events related to the ...

Chemical composition, antioxidant, antitumor, anticancer and

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cytotoxic effects of Psidium guajava leaf extracts Aisha Ashrafa, Raja Adil Sarfraza,b, Muhammad Abid Rashida, Adeel Mahmoodc, Muhammad Shahida and Nadia Noora aDepartment of Chemistry, University of Agriculture, Faisalabad, Pakistan; bCentral Hi-Tech Laboratory, University of ...

Chemical composition, antioxidant, antitumor, anticancer

...

However, there is no clear connection between chemical composition and biological activity. These results indicate that the cytotoxicity effect on HeLa cells does not depend upon the concentration of particular components but on the establishment of possible synergistic activity of individual phenolic acids and flavonoids.

Chemical composition of the ethanolic propolis extracts

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the chemical composition, antioxidant activity and cytotoxic effects of several black trumpet dry extracts. Materials and Methods Materials Whole dried fruiting-bodies of *Craterellus cornucopioides* (L.) Pers. were acquired in 2017, from a specific Romanian manufacturer. Reagents and solvents All chemicals were purchased from Sigma-Aldrich

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