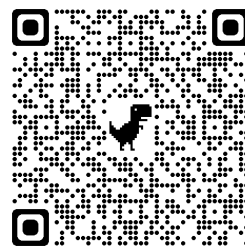


CURRENT RESEARCH TOPICS IN PHARMACY:

Traditional Medicine Talks

May 26th, 2023



FIRST SESSION 11.00 AM-12.45 PM

Moderator:
Mehmet
GÜMÜŞTAŞ

Welcome
Assoc.Prof. Betül OKUYAN

Bioorganic MgO nanoparticles attenuate oxidative stress and upregulate gene expression to attenuate doxorubicin-induced cardiotoxicity
Prof. Atiar Rahman

Phytopharmaceuticals as a protagonist approach for upsurging bioactivity of traditional medicines
Assist.Prof. Monika Dwivedi

Evaluation of *Withania somnifera* (Ashwagandha) in post-traumatic stress disorder induced neurobehavioral and biochemical markers : An experimental study
Dr. Sana Rehman

SECOND SESSION 13:00-14.45 PM

Moderator:
Ceyda EKENTOK
ATICI

HPTLC: A tool for herbal drug discovery
Prof. Abhishek Gupta

Persian Traditional Medicine
Assist. Prof. Laleh Khodaie

Folk medicinal plants of Turkey :
An overview
Assoc. Prof. Gizem Emre

Interactions of traditional and modern medicine in respiratory disorders : An Indian perspective
Prof. Arunabha Ray

THIRD SESSION 15.00-16.15 PM

Moderator:
Esra TATAR

Traditional use of medicinal plants in Albania, past and present
Prof. Vilma Papajani

Voltametric analysis of the antioxidative potential of medicinal plants traditionally used in North Macedonia
Assoc. Prof. Viktorija Maksimova

Biological activities of *Scolymus hispanicus* L.
Assist.Prof. Pervin Rayaman

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INVESTIGATION on BIOLOGICAL ACTIVITY of *SCOLYMUS HISpanicus* L.

Pervin RAYAMAN^{1*}, Aslı Gül ACAR², Erkan RAYAMAN¹, Mizgin ERMANOĞLU³, Beyza Nur YILMAZ³, Bahar GÜRDAL⁴, Turgut TAŞKIN³

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Scolymus hispanicus L. also known as Golden thistle belongs to the Asteraceae family is an edible medicinal plant found in Türkiye. *Scolymus hispanicus* L. leaves, stems and flowers are traditionally used as a "bitter" tonic to stimulate appetite, enhance bile secretion, decrease flatulence, and aid digestion. It has been also used since its diuretic, diaphoretic, and antipyretic effects.

The aim of this study was to determinate the biological (antimicrobial, antioxidant and anticholinesterase) activities of *Scolymus hispanicus* L. petroleum ether, chloroform and methanol extracts obtained by using maceration method. DPPH, CUPRAC, and FRAP techniques were used to examine the antioxidant properties of plant' extracts. The extracts' anticholinesterase and antimicrobial activities were determined using the Ellman and Agar well diffusion techniques, respectively. It was found that the methanol extract obtained from the plant showed the strongest antioxidant activity when compared to the other extracts. Also among the three extracts it was assessed that the chloroform extract had the highest anticholinesterase potential activity. Additionally, it was found that the petroleum ether extract of *Scolymus hispanicus* L. was effective against *Acinetobacter baumannii*, *Candida tropicalis* and both *Staphylococcus aureus* strains (*Staphylococcus aureus* ATCC 43300 and *Staphylococcus aureus* ATCC 259230) and its chloroform extract was effective against both *Staphylococcus aureus* strains.

Consequently, in the present study the strong biological activities of *Scolymus hispanicus* L. have been determined .

Keywords: *Scolymus hispanicus* L.; antimicrobial activity; antioxidant activity; anticholinesterase activity.

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