

The 6th International Conference on Natural Products for Health and Beauty

"New Frontiers in Natural Products for Health & Longevity"

January 21-23, 2016

Pullman Raja Orchid Hotel, Khon Kaen, Thailand

NATPRO6

Abstracts Book



Hosted by :



Co-hosted by :



SCHOOL OF
MEDICAL SCIENCES
UNIVERSITY OF PHAYAO

ISBN: 978-616-223-566-5



O17

Study on Bioactive Chemical Constituents of the Kazakh Traditional Medicinal Plants

J. Jenis^{a,*}, Merkitabeyeva A. Sh^a, H. Aisa^b

^aDepartment of Chemistry and Technology of Organic Matters, Natural Compounds and Polymers, Al-Farabi Kazakh National University, Almaty, 050038, Al-Farabi ave.71

^bXinjiang Technical Institute of Physics and Chemistry, Central Asian of Drug Discovery and Development, Urumchi, 830011, Beijing road 40-1, R. P. China

*janarjenis@mail.ru

ABSTRACT

In Kazakh traditional medicine, the plant resources have been efficiently used in the treatments of different kinds of diseases such as bronchitis, bronchial asthma, brohepatitis, urethritis, chronic rheumatoid arthritis, nephritis, urolithiasis, pharyngitis, periodontitis, stomach pain, hyperacidity, diarrhea, hemostasia, metrorrhagia, snakebite, and cancer. We focused our attention on study of the bioactive chemical constituents of some Kazkh medicinal plants such as *Atriplex tatarica*, *Dracocephalum nutans*, *Bergenia crassifolia*, *Thymus altaicus*, and *halloxyllon ammendendron*.

The all crude plant extracts were partitioned with n-hexane, chloroform, and n-butanol. Biological activities of the resulting extracts were screened. Chemical constituent studies were performed on plants which possessing significant cytotoxic effects on several human cancer cell lines (HL-60, MCF7, and HepG2), antioxidant, antimicrobial and anti-diabetic activities. The active principles are responsible for the activity which were identified as diterpens, sequiterpens, lignans, alkaloids, tannins and flavonoids.

Keywords: Bioactive chemical constituents, Kazakh traditional medicinal plant.

Hosted by :



Co-hosted by :



SCHOOL OF
MEDICAL SCIENCES
UNIVERSITY OF PHAYAO

NATPRO6

6th International Conference on Natural Products for Health and Beauty (NATPRO6)
“New Frontiers in Natural Products for Health & Longevity”
21-23 January 2016, Khon Kaen, Thailand

Certificate of Appreciation

is presented to

Dr. Janar Jenis

Oral Presentation

“ Study on Bioactive Chemical Constituents of the Kazakh Traditional Medicinal Plants ”

In gratified recognition of your support to the conference
This contribution was greatly appreciated

Professor Bungorn Sripanidkulchai
Chairman, the 6th NATPRO Organizing Committee

Associate Professor Paiboon Daosodsai
Dean, Faculty of Pharmaceutical Sciences, Khon Kaen University

Associate Professor Pornthap Thanonkeo
Dean, Faculty of Technology, Khon Kaen University

Hosted by :



Co-hosted by :



SCHOOL OF
MEDICAL SCIENCES
UNIVERSITY OF PHAYAO

NATPRO6

6th International Conference on Natural Products for Health and Beauty (NATPRO6)
“New Frontiers in Natural Products for Health & Longevity”
21-23 January 2016 Khon Kaen, Thailand

Certificate of Appreciation

is presented to

Dr. Janar Jenis

Very Good Oral Presentation Award

“ Study on Bioactive Chemical Constituents of the Kazakh Traditional Medicinal Plants ”

In gratified recognition of your support to the conference
This contribution was greatly appreciated

Professor Bungorn Sripanidkulchai
Chairman, the 6th NATPRO Organizing Committee

Associate Professor Paiboon Daosodsai
Dean, Faculty of Pharmaceutical Sciences, Khon Kaen University

Associate Professor Pornthap Thanonkeo
Dean, Faculty of Technology, Khon Kaen University