



**Chair and Department of Pharmacognosy  
with Medicinal Plant Unit  
Medical University of Lublin  
1 Chodźki Str, 20-093 LUBLIN  
tel./fax +48 81448 7086  
e-mail: kskalicka@pharmacognosy.org**

---

Ms Olga Sermukhamedova worked in Department of Pharmacognosy with Medicinal Plant Unit, Faculty of Pharmacy with Medical Analytics Division under my supervision from 25th January to 25th February 2016.

During her stay she conducted experiments related to the subject of her PhD thesis: ‘*Methodological Aspects of Valeriana Turkestanica Sumn., Leonurus Turkestanicus V.I.Krecz & Kuprian Essences’ Reception and Development of Dosage Forms Based on Them.*’. Her researches were concentrated mostly on measuring the antioxidant potential, as well as antimicrobial properties of the selected extracts, and perform a detailed identification of the extracts’ components with application of modern techniques like GC-MS or LC-Q-TOF-MS.

As the results of our common work two scientific articles has been prepared:

- Olga Sermukhamedova, Agnieszka Ludwiczuk, Jarosław Widelski, Kazimierz Głowniak, Zuriyadda Sakipova, Liliya Ibragimova, Ewa Poleszak, Geoffrey A. Cordell, Krystyna Skalicka-Woźniak: “Chemical comparison of the underground parts of *Valeriana officinalis* and *Valeriana turkestanica* from Poland and Kazakhstan” *Open Chem.*, 2017; 15: 75–81 (Impact Factor: 1.027)
- Olga Sermukhamedova, Krzysztof Kamil Wojtanowski, Jarosław Widelski, Izabela Korona-Głowniak, Hosam O. Elansary, Zuriyadda Sakipova, Anna Malm, Kazimierz Głowniak, Krystyna Skalicka-Woźniak: „Metabolic profile of aerial part of *Leonurus turkestanicus* V.I.Krecz. & Kuprian from Kazakhstan and antimicrobial activity” *Journal of AOAC Int.* accosted for publication (Impact Factor: 0.918)

During her scholarship Ms Olga Sermukhamedova was realizing her individual plan of scientific work, but also took part in different classes and lectures for pharmacy students of Medical University of Lublin.

The main idea of presented dissertation is pharmacognostic research of *Leonurus turkestanicus* and *Valeriana turkestanica*, and in addition antioxidant and antimicrobial activities of the plants.

The Flora of Kazakhstan is characterized by varieties of large numbers of endemic species. Ms Olga Sermukhamedova put a lot of effort to systematize the knowledge concerning phytochemistry and bioactivity of two of the: *Valeriana turkestanica* and *Leonurus turkestanicus* from Kazakhstan. Presented results are an approach to the standardization of raw materials widely spread in the flora of Kazakhstan. That will allow to expand the range of sources of new herbal remedies in the framework of realization of the state program for import substitution and introduce the new species to the Pharmacopoeia. In my opinion the content of presented PhD thesis is extremely important and valuable for development of the herbal industry in Kazakhstan.

CHAIR AND DEPARTMENT OF PHARMACOGNOSY  
WITH MEDICINAL PLANT UNIT  
MEDICAL UNIVERSITY OF LUBLIN  
1 Chodźki street, 20-093 Lublin, POLAND  
tel./fax (+48) 81 448 7080

Krystyna Skalicka-Woźniak, PhD, DSc

Associate Professor

Krystyna Skalicka-Woźniak  
dr. hab. n. farm.

Co-supervisor of PhD Thesis

*Krystyna Skalicka-Woźniak*