3rd World Congress on
NATURAL PRODUCTS CHEMISTRY AND RESEARCH
&
12th WORLD PHARMA CONGRESS
October 16-18, 2017 Budapest, Hungary

Sesquiterpene lactones from *Artemisia* L. endemic species

Gayane Atazhanova[1] and **Sergazy M Adekenov**[2]
National Academy of Sciences of the Republic of Kazakhstan, Kazakhstan
JSC "International Research and Production Holding Phytochemistry", Republic of Kazakhstan

Plants from *Artemisia* L. genus belonging to Asteraceae Dumort. family are one of the main sources of sesquiterpene lactones. Ninety species of wormwood grow in the territory of Kazakhstan, 20 of which are endemic and considered as potential sources of novel, previously unexplored natural compounds, especially sesquiterpene lactones. We have carried out the chemical analysis of 11 endemic plant species from *Artemisia* L. genus for the first time, they are as follows: *Artemisia aralensis* Krasch., *Artemisia* cina Berg., *Artemisia* filatovii A. Kuprijanov sp. nova, *Artemisia* glabella Kar. et Kir., *Artemisia halophila* Krasch., *Artemisia hippolyti* Butkov, *Artemisia karatavica* Krasch. et Abol., *Artemisia radicans* A. Kuprijanov sp. nova, *Artemisia saissanica* (Krasch.) Filat., *Artemisia* semiarida (Krasch. et Lavr.) Filat., *Artemisia succulenta* Ldb. Fl. Alt. From 11 endemic species of *Artemisia* L. 25 sesquiterpene lactones were determined. In doing so, 7 new sesquiterpene lactones were isolated, and the structures of their molecules elucidated by means of modern physical, chemical and spectral methods (IR-, PMR-, 13C NMR, mass-), including X-ray analysis.

phyto_pio@mail.ru

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