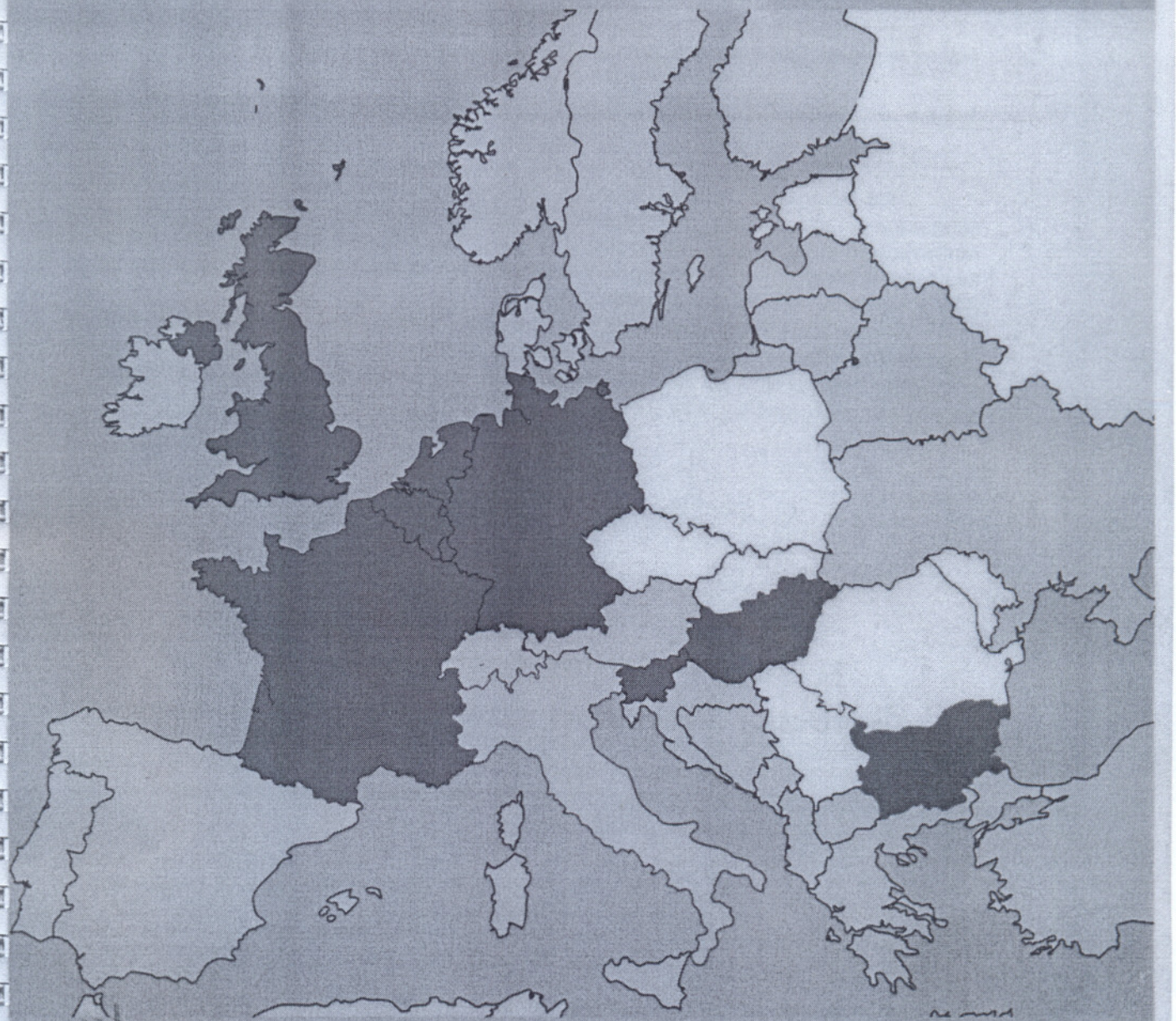




14th Central and Eastern European NMR Symposium & Bruker Users' Meeting

CEUM 2012



Programme and Book of Abstracts

16th-19th September, Golden Sands, Bulgaria

A new cembrane glycoside in *Asterothamnus centrali-asiaticus* from Gobi Desert

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Asterothamnus centrali-asiaticus Novopokr. (syn. *Aster alyssoides* var. *achnolepis* Hand.-Mazz.) (Asteraceae) is widely distributed in Mongolia and in northwestern parts of inner-Mongolia, China [1]. The literature survey revealed only two reports concerning the essential oil composition of leaves [2] and the content of fatty acids in the seeds of this species [3].

A new cembrane glycoside, nephthenol-β-6-deoxy-D-glucopyranoside was isolated from the aerial parts of *A. centrali-asiaticus*. Its structure (Fig. 1) was established by 1D and 2D NMR (COSY, HSQC and HMBC) spectroscopic analysis, as well as mass spectrometry (HR-ESI-MS).

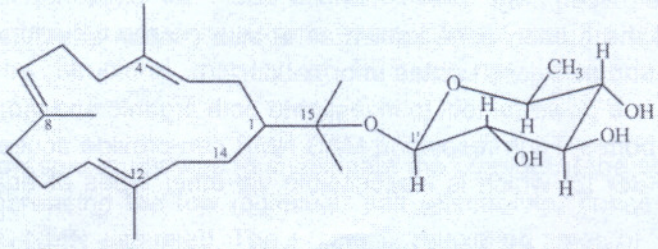


Fig. 1. Structure of the new cembrane glycoside

Cembrane-type diterpenoids are a large and structurally varied group of natural products isolated from both terrestrial and marine organisms [4]. Although over 600 compounds are already known, only 5 of them are glycosides (isolated from marine organisms) [4, 5]. This is the first report of the occurrence of a cembrane glycoside in higher plants.

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Acknowledgements: *We are thankful to Prof. Slobodan Milosavljević and Dr. Milka Jadranin from the Department of Chemistry, University of Belgrade, Belgrade for performing HRMS specta and optical rotation measurment.*