

6th World Congress on**MEDICINAL CHEMISTRY AND DRUG DESIGN**

June 07-08, 2017 Milan, Italy

Quantification of some medical preparations of the plant originMalkhaz Getia¹, Vakhtang Mshvildadze^{1,2}, Zurab Kemoklidze¹, Nana Gorgaslidze¹, Andre Pichette² and Genri Dekanosidze¹¹Tbilisi State Medical University, Georgia²University of Quebec at Chicoutimi, Canada

Among the biologically active compounds there are various triterpene glycosides (saponins). In recent years some crude extracts from various species of Georgian flora were obtained at the TSMU I Kutateladze Institute of Pharmacochimistry (Tbilisi, Georgia), namely from the leaves of Colchis ivy (*Hedera colchica* (K. Koch) – extract with antiulcer activity, from the leaves of *Fatsia japonica* extract with anti-rheumatic activity (Fatsiflogin) and from the leaves of *Hedera helix* seu *H. caucasigena* extract with bronchospasmolytic properties (Causuron). Hederacolchiside F (HcF), Fatsiosid D and Hederasaponin C (HsC) were chosen as the biological and chemical markers for the biological active substances. The UV detection is performed at 205 nm. The chromatographic separation was achieved using a reversed phase column C-18. NMR: Structure elucidation of the markers were carried out using ¹H NMR (Bruker Avance 400MHz), ¹³C (Bruker Avance 100 MHz). The proposed HPLC methods are linear in the range studied ($r^2 > 0.999$) for all the analyses. Precision, sensitivity and linearity are satisfactory in the range studied. Finally, new, simple, sensitive and reproducible HPLC methods have been developed and validated for the simultaneous quantification of HcF, Fatsiosid D and HsC in the crude extract of Colchis ivy, Fatsiflogin and Causuron.

Biography

Malkhaz Getia has completed his PhD from Tbilisi State Medical University and Post-doctoral studies from University of Quebec at Chicoutimi, University of Liege and University of Marseille. He is a Scientific Researcher at the TSMU I K Institute of Pharmacochimistry. He has published more than 22 papers in reputed journals and has been serving as an Editorial Board Member of reputed journal.

mgetia2004@yahoo.co.uk