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Haemostatic activity of butanol extracts of *Lamium album* and *Lamium purpureum*

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The genus *Lamium* contains about 40 species, distributed in Europe, Asia, and Africa, some of which are used in traditional medicine. Currently, the genus *Lamium* is less studied and much less utilized compared to other members of the Lamiaceae family to which it belongs. *Lamium album* and *Lamium purpureum* are species belonging to the *Lamium* genus. Aerial parts of the two species and roots of *Lamium album* have applications in human and veterinary traditional medicine. Literature data presents as main components of the *Lamium* genus species iridoid glycosides. The active principles have diuretic, anti-inflammatory, anti-diarrheal, astringent, expectorant, vasoconstrictor, antirheumatic, haemostatic and emollient properties. In this paper, haemostatic properties of the *Lamium* species are investigated by two experimental (topical and systemic administration) models: hemostatic test by tail bleeding time determination and acenocoumarol-carrageenan test. The haemostatic test results by tail bleeding determination topical administration, have demonstrated that both extracts have haemostatic activity. In the acenocoumarol-carrageenan test, systemic administration, only *Lamium album* extract have shown haemostatic activity, comparable with those obtained for administration of vitamin K. Based on the qualitative chemical composition in iridoid glycosides (HPTLC analysis) and the results obtained in experimental tests, there is the possibility that the compound responsible for the haemostatic activity is 8 acetylshanzhiside methyl ester. Both extracts have no toxicity based on an acute toxicity test.

Recent Publications:

1. Bubueanu Corina, Gheorghe Campeanu, Pirvu Lucia, Bubueanu George (2013) Antioxidant activity of butanolic extracts of romanian native species - *Lamium album* and *Lamium purpureum*, Romanian Biotechnological Letters. 18 (6): 8855-8862.
2. Lucia Pirvu, Corina Bubueanu, Minerva Panteli, Lucian Petcu and Dragomir Coprean (2015) Centaurea cyanus L. polysaccharides and polyphenols cooperation in achieving strong rat gastric ulcer protection Open Chemistry. 13: 910-921.
3. Alice Grigore, Lucia Pirvu, Corina Bubueanu, Minerva Panteli and Iuksel Rasit (2015) Influence of chemical composition on the antioxidant and anti-inflammatory activity of Rosmarinus officinalis extracts - Romanian Biotechnological Letters. 20 (1): 10047-10054.
4. Lucia Pirvu, Cristina Hlevca, Ioana Nicu and Corina Bubueanu (2014) Comparative studies on analytical, antioxidant, and antimicrobial activities of a series of vegetal extracts prepared from eight plant species growing in Romania -Journal of Planar Chromatography. 27 (5): 346-356.
5. Corina Bubueanu. Ramona Pavaloiu, Lucia Pirvu (2016) HPTLC profiles and antioxidant activities from leaves to green and roasted beans of coffea arabica. Malaysian Journal of Medical and Biological Research. 3 (1): 31-36.

Biography

Corina Bubueanu is a Biochemist, has completed her PhD in Horticulture (2013) with 15 years' of experience in research in the field of obtaining of new, natural medicines/drugs based on the selective herbal/vegetal, mushrooms extracts, involving both, fundamental research in order to design the most properly phytochemical composition, as well as applicative research concerning the following activities: the isolation of the various selective vegetal extracts enriched in the interest phytochemical compounds; analytical screening of the obtained vegetal extracts and the selection of the most proper ones by using specific, combined methods (spectral and spectrophotometric methods combined with HPTLC); the obtaining of the final pharmacological active product with pharmacological potential by the combination of the most active vegetal extracts; the setting up of the most appropriate and reproducible extractive technologies of these extracts and the correspondingly final active product as to the technological transfer from laboratory to pilot level.

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