Intervention of some plants with medicinal and agricultural potential in skin pathology an experimental model

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Abstract
Plant sources can be very important as medicinal and agricultural potential and from these birches tree and plane tree outer bark are important types. They contain pentacyclic triterpenes with antitumoral, antiinflammatory and antiviral properties. From that group of triterpenes betulinic acid, betulin and lupeol are the remarkable compounds, some of them in preclinical trials. They are lupan skeleton compounds. The aim of present study was to test their therapeutic activity on dry skin syndrome and photoaging experimental model from total dry extracts obtained from tree’s bark. The materials were total extracts from Romanian flora and the methods for experimental models were described in literature on Spargue dawley rats. Semisolid formulations applied on rat’s skin were O/W type. For uniform and constant results we used females 6 weeks age. All the experiments were approved by University Bioethical Committee. The main results indicated that the administration of semisolid forms as prophylactic and curative forms decrease skin damages. The main conclusion is that this natural sources obtained from outer bark are important in skin treatment and mixture of triterpenic compounds are helpful in regenerating and protect the skin.

Key words: plant, agriculture, medicine, skin pathology, teiterpenic compounds