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REVIEW ARTICLE

NATURAL PRODUCTS WITH ANTI-HERPES ACTIVITIES: IN VIVO STUDIES

Hala Sabry Al-Atbi¹, Asmaa B. Sabti² and Sahar A. Ali¹

1. Department of Chemistry, College of Science, University of Basrah, Basrah, Iraq.
2. Department of Chemistry, College of Science, University of Misan, Maysan, Iraq.

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Abstract

Herpes are a group of similar viruses that are responsible for a number of infecting diseases, the most important of which are herpes simplex, herpes zoster and pseudopox. Resistance to traditional antiviral medications is becoming increasingly common, making treatment of such infections even more difficult. For example, the usage of nucleoside analogues like acyclovir to target the DNA-polymerase of the virus on a regular and long-term basis promotes the generation of resistant viruses. As a result, a different treatment is required. Natural products, such as herbal remedies, have been shown to have in vitro and in vivo activity against herpes viruses, and have shown to be a valuable source for new antivirals development and separation. The goal of this review is to highlight the most promising extracts and pure chemicals obtained from plants and marine species that have in vivo anti-herpes simplex virus (HSV-1 and HSV-2) action. Natural products as new anti-HSV medications offer a number of benefits, including fewer side effects, minimal toxicity, and lowered resistance, and a variety ways of deed.

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Introduction:-

Herpes is a developing disease that is caused by herpesviruses infection and replication. There have been more than 80 herpesviruses identified, with eight of them being known human diseases. Herpes simplex viruses are members of the Herpesviridae virus family, that embraces herpes simplex virus-1 HSV-1, HSV-2, varicella zoster virus, Epstein-Barr virus, CMV, herpesviruses types 6,7 and type 8 which is Kaposi's sarcoma-linked in [1,2]. HSV1 is predominantly linked to infections of the mouth, pharynx, face, ophthalmic, and central nervous system, and is spread mostly by oral excretions and non-genital touching. HSV2 is commonly associated with anal and genital infections and is transmitted mostly through genital excretions. Each, however, has the potential to cause This virus is part of a large family of enveloped-DNA viruses that can induce a variety of clinically severe disorders in adults and newborns [5,6]. Illnesses might range from undetectable to life-threatening infections like encephalitis. This Illnesses is marked by the formation of erythematous lesions that degrade swiftly, resulting in harmful ulcers, as well as a variety of clinical manifestations such as fever, malaise, generalized muscle soreness, headaches, itching, and other symptoms that vary depending on the affected part. HSV is a frequent infectious illness, particularly among immunocompromised people. Recurrences are caused by a range of environmental circumstances and are nothing more than clinical indications of a new phase of viral replication and propagation of virus through nerve fibers to appear on the skin again. These environmental circumstances involve emotional stress, fever, UV light exposure, and hormonal changes, among others [1,4,7]. infections in all places [2-4].

Corresponding Author:- Hala Sabry Al-Atbi

Address:- Department of Chemistry, College of Science, University of Basrah, Basrah, Iraq.