

Activity of *Scinaia hatei* against Herpes through deactivation of Herpes Simplex virus type 1 DNA polymerase (2GV9)

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Abstract: An in-silico study was performed to determine the activity of *Scinaia hatei* against Herpes. Molecular docking using Biovia Discovery Studio was performed to identify the phytochemical responsible to deactivate Herpes Simplex virus type 1 DNA polymerase (2GV9) enzyme. It was found that Tangeretin helped to prevent Herpes.

Introduction: *Scinaia hatei* is known for its medicinal activities. It helps to treat herpes, dengue, myalgia, pancreatitis, cardiac arrhythmia, and hepatitis.

The plant is classified as follows:

Kingdom	Plantae
Division	Rhodophyta
Class	Florideophyceae
Order	Nemalionales
Family	Chaetangiaceae
Genus	<i>Scinaia</i>
Species	<i>hatei</i>

Major phytochemicals present in the plant are:

- a. Sulforaphane
- b. Alliin
- c. Tangeretin
- d. Tannic acid

One of the major enzymes required for the survival of the organism causing Herpes is Herpes Simplex virus type 1 DNA polymerase (2GV9) enzyme. The objective of this work is to find the phytochemical that can deactivate the enzyme, thereby preventing the physiological activity of the organism.