## Activity of Phyllanthus emblica against Herpes through deactivation of Herpes virus fusion regulator complex gH-Gl (3M1C)

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**Abstract:** An in-silico study was performed to determine the activity of Phyllanthus emblica against Herpes. Molecular docking using Biovia Discovery Studio was performed to identify the phytochemical responsible to deactivate Herpes virus fusion regulator complex gH-Gl (3M1C) enzyme. It was found that Ursolic acid helped to prevent Herpes.

**Introduction:** Phyllanthus emblica is known for its medicinal activities. Seeds of the fruits are used in treatment of asthma, herpes and bronchitis. The leaves are used as fodder. Alcoholic extract of the fruit is anti–viral.

The plant is classified as follows:

Kingdom	Plantae
Division	Tracheophyta
Class	Magnoliopsida
Order	Malpighiales
Family	Phyllanthaceae
Genus	Phyllanthus
Species	emblica

Major phytochemicals present in the plant are:

- a. Malvidin
- b. Myricetin
- c. Ursolic acid
- d. Ascorbic acid

One of the major enzymes required for the survival of the organism causing Herpes is Herpes virus fusion regulator complex gH-Gl (3M1C) enzyme. The objective of this work is to find the phytochemical that can deactivate the enzyme, thereby preventing the physiological activity of the organism.

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