

## Activity of *Pericampylus glaucus* against Hepatitis C through deactivation of Hepatitis C Virus IRES Pseudoknot domain

(3T4B)

Sameer Banarjee<sup>1</sup>, Srimay Pradhan<sup>2</sup>

<sup>1</sup>190705180146@cutm.ac.in

<sup>2</sup>srimay.pradhan@cutm.ac.in

Centurion University of Technology and Management, Odisha, India

**Abstract:** An in-silico study was performed to determine the activity of *Pericampylus glaucus* against Hepatitis C. Molecular docking using Biovia Discovery Studio was performed to identify the phytochemical responsible to deactivate Hepatitis C Virus IRES Pseudoknot domain

(3T4B) enzyme. It was found that Pelletierine and Alliin helped to prevent Hepatitis C.

**Introduction:** *Pericampylus glaucus* is known for its medicinal activities. The mucilage resulting from soaking the pounded leaves overnight is taken orally to cure a swollen spleen and accompanying fever.

The plant is classified as follows:

Kingdom	Plantae
Division	Tracheophyta
Class	Magnoliopsida
Order	Ranunculales
Family	Menispermaceae
Genus	<i>Pericampylus</i>
Species	<i>glaucus</i>

Major phytochemicals present in the plant are:

- a. Pelletierine
- b. Alliin
- c. Theobromine
- d. Tannic acid

One of the major enzymes required for the survival of the organism causing Hepatitis C is Hepatitis C Virus IRES Pseudoknot domain

(3T4B) enzyme. The objective of this work is to find the phytochemical that can deactivate the enzyme, thereby preventing the physiological activity of the organism.