## Activity of Alpinea galanga against Hepatitis C through deactivation of Hepatitis C Virus IRES Pseudoknot domain

(3T4B)

Karubaki Bhanjadeo<sup>1</sup>, Srimay Pradhan<sup>2</sup>

<sup>1</sup>190705180141@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 Alpinea galanga 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 Limonene helped to prevent Hepatitis C.

**Introduction:** Alpinea galanga is known for its medicinal activities. Alpinia is a plant related to ginger. The horizontal underground stem (rhizome) is used to make medicine. Alpinia is used to treat fever, muscle spasms, intestinal gas, and swelling (inflammation); to kill bacteria; and as a stimulant.

The plant is classified as follows:

Kingdom	Plantae
Division	Tracheophyta
Class	Magnoliopsida
Order	Zingiberales
Family	Zingiberaceae
Genus	Alpinea
Species	galanga

Major phytochemicals present in the plant are:

- a. Cryptoxanthin
- b. Tangeretin
- c. Salicylic acid
- d. Limonene

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

Centurion Journal of Multidisciplinary Research Special Issue: December 2019