

## Activity of Potentilla anserine against Hepatitis C through deactivation of Hepatitis C Virus IRES Pseudoknot domain

(3T4B)

Anshu Debata<sup>1</sup>, Namita Panda<sup>2</sup>

<sup>1</sup>190705180151@cutm.ac.in

<sup>2</sup>namita.panda@cutm.ac.in

Centurion University of Technology and Management, Odisha, India

**Abstract:** An in-silico study was performed to determine the activity of Potentilla anserine 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 Lupeol helped to prevent Hepatitis C.

**Introduction:** Potentilla anserine is known for its medicinal activities. The whole plant is antispasmodic, mildly astringent, diuretic, foot care, haemostatic, odontalgic and tonic.

The plant is classified as follows:

Kingdom	Plantae
Division	Tracheophyta
Class	Magnoliopsida
Order	Rosales
Family	Rosaceae
Genus	Potentilla
Species	anserine

Major phytochemicals present in the plant are:

- Lupeol
- Peonidin
- Limonene
- Malvidin

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.