Activity of Ranunculus scleratus against Hepatitis C through deactivation of Hepatitis C Virus IRES Pseudoknot domain

(3T4B)

Bijaylaxmi Parida¹, Namita Panda²

¹190705180153@cutm.ac.in

²namita.panda@cutm.ac.in

Centurion University of Technology and Management, Odisha, India

Abstract: An in-silico study was performed to determine the activity of Ranunculus scleratus 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 Daidzein helped to prevent Hepatitis C.

Introduction: Ranunculus scleratus is known for its medicinal activities. The whole plant has antiinflammatory, analgesic, sedative and expectorant properties and it is recommended against skin diseases such as eczema, herpes, pruritus, burns and swellings.

The plant is classified as follows:

Kingdom	Plantae
Division	Tracheophyta
Class	Magnoliopsida
Order	Ranunculales
Family	Ranunculaceae
Genus	Ranunculus
Species	sceleratus

Major phytochemicals present in the plant are:

- a. Theobromine
- b. Daidzein
- c. Peonidin
- d. Limonene

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.

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