Activity of Strobilanthus cusia against Herpes through deactivation of Thymidine Kinase of Herpes Simplex virus (1KIM)

DebikaTripathy¹, Pratap Kumar Chhotaray²

¹debikatripathy52@gmail.com

²pratap.chottaray@cutm.ac.in

Centurion University of Technology and Management, Odisha, India

Abstract: An in-silico study was performed to determine the activity of Strobilanthus cusia against Herpes. Molecular docking using Biovia Discovery Studio was performed to identify the phytochemical responsible to deactivate Thymidine Kinase of Herpes Simplex virus (1KIM) enzyme. It was found that Tangeretin helped to prevent Herpes.

Introduction: Strobilanthus cusia is known for its medicinal activities. It is used for influenza, herpes, epidemic cerebrospinal meningitis, encephalitis B, viral pneumonia and mumps.

The plant is classified as follows:

Kingdom	Plantae	
Division	Tracheophyta	
Class	Magnoliopsida	
Order	Lamiales	
Family	Acanthaceae	
Genus	Strobilanthus	
Species	cusia	

Major phytochemicals present in the plant are:

- a. Tangeretin
- b. Salicylic acid
- c. Epicatechin
- d. Catechin

One of the major enzymes required for the survival of the organism causing Herpes is Thymidine Kinase of Herpes Simplex virus (1KIM) enzyme. The objective of this work is to find the phytochemical that can deactivate the enzyme, thereby preventing the physiological activity of the organism.

ISSN: 2395-6216