



102/A

The hepatoprotective capability of *Munronia pinnata* (*Binkohomba* plant)

S.D. Hapuarachchi^{1*}, T.S. Suresh², W.T.P.S.K. Senarath³, S. Hadunnetthi⁴ and
K. Samarasinghe⁵

¹Department of Ayurveda, Institute of Indigenous Medicine, University of Colombo ²Department of Biochemistry, University of Sri Jayewardenepura, Sri Lanka.

³Department of Botany, University of Sri Jayewardenepura, Sri Lanka.

⁴Institute of Biochemistry, Molecular Biology and Biotechnology, University of Colombo ⁵Department of Pathology, Faculty of Medical Sciences, University of Sri Jayewardenepura, Sri Lanka

According to the results of our research, it was confirmed that *Binkohomba* plant can prevent various diseases in the liver. The present study thus provides a scientific rationale for the traditional use of this herb in the management of liver disorders. It is scientifically proved by using an animal model. These results validated the use of both these herbs; *Binkohomba* and *Heen binkohomba* (*M. pinnata* and *A. paniculata*) as an alternative for *Swertia chiraita* plant (hepatoprotective agent) in the Traditional and Ayurvedic therapeutic practice as well as the Ayurvedic drug preparations in Sri Lanka. *Swertia chiraita* plant is not available in Sri Lanka. This research was carried out with the support of an animal model to check the ability of the different types of extracts of *Binkohomba* plant (*Munronia pinnata* Wall. Theob. Family -Meliaceae) and compared with the established Ayurveda hepatoprotective agent, *Andrographis paniculata*(AP) which is used in traditional Sri Lankan Medical system to prevent various diseases in the liver. *Binkohomba* plant has been used in a variety of ailments in the traditional Sri Lankan medical system and it has been happening for many centuries. Though it has been not documented in the Ayurveda text, Ayurveda doctors also used this plant as an alternative to *Swertia chiraita* plant. Therefore, we conducted this research work to find out the scientific validation for to use of this plant to prevent various diseases in the liver.

*dr.sdhapuarachchi@iim.cmb.ac.lk