

# **Anti-Hantaan Virus Activity of Synthetic Coumarrin Analogue in Vitro**

Z.Q. Yang, H. Xiao, Y.W. Liu, L. Wen, J.P. Song and J.J. Liu

*Virus Research Institute, Hubei Medical University, Wuhan*

*430071 P.R. China*

We have previously described the activity of crude and pure compounds extracted from *Alternanthera philoxeroides* Griseb. against Hantaan virus, RSV and HIV in vitro and in vivo (Yang et al., Xiao et al., J Natl Virol 1989, 1993; Yang et al., 8th ICAR, 1995). Synthetic coumarrin analogue originated from *Alternanthera Philoxeroides* Griseb., the antiviral on Hantaan virus was examined in Vero-Eo cell cultures. Cytotoxicity studies were performed using a neutral red uptake assay. The result showed an inhibitory effect on Hantaan virus replication at concentrations that were not cytotoxic to Vero-Eo cells. The compound has anti-Hantaan virus activity at 20 µg/ml. Antiviral effect is better than its crude extract and ribavirin that is same concentrations. Antiviral activity is similar to its pure compounds at same concentration. These results demonstrate that *Alternanthera philoxeroides* Griseb. has antiviral activity.