



# **Antiviral properties of medicinal plants against PPR and FMD viruses: Antiviral properties of medicinal plants against Peste des petites ruminants and Foot and Mouth Disease viruses**

*Dr. Aqeel Javeed, Mr. Abid Ali, Prof. Dr. Muhammad Ashraf*

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The antiviral activity of plants *Silybum marianum* (seeds), *Chenopodium album* (whole plant) and *Nigella sativa* (seeds) were evaluated against Peste des petites ruminants virus (PPRV) and Foot and Mouth Disease virus (FMDV) in this study. Methanolic extraction of these plants was done by using Soxhlet apparatus and extracts were dried by using rotary evaporator. Vero cells were infected by PPRV and BHK-21 by FMDV respectively. The herbal extracts assays of antiviral and cytotoxic were carried out in cell culture plates. MTT [3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide] colorimetric assay were used for the determination of their quantification. Antiviral and cytotoxic properties of *Silybum marianum* *Chenopodium album* and *Nigella sativa* against Peste des petites ruminants and Foot and Mouth Disease viruses were observed in this study. The results of present study are helpful in the treatment of Peste des petites ruminants and Foot and Mouth Disease.

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