



## Antiproliferative, antioxidant and antimicrobial screening of *Strychnos colubrina* Linn extracts

Preethimol Francis<sup>1\*</sup>, SuseemSR<sup>2</sup>

<sup>1</sup>Nirmala College of Pharmacy, Muvattupuzha, Kerala India-686668

<sup>2</sup>SAS, VIT University, Vellore, Tamilnadu India

**Abstract :** Medicinal plants are the most precious gift to mankind offered by nature. For most of the known health issues there is a natural plant remedy. But most of these plants are not properly exploited. The present study deals with the scientific study of the therapeutic use of a medicinal plant *Strychnos colubrina* Linn. The plant is traditionally used by the tribe for skin cancer and infections. The present study consists of invitro screening of antiproliferative, antioxidant and antimicrobial activity of *Strychnos colubrina* Linn extract. The chloroform extract was prepared using ariel plant parts and the antimicrobial activity as assessed by Cup plate method using gram -ve and +ve strains. The antioxidant activity of extract was screened by six different methods that include H<sub>2</sub>O<sub>2</sub>, superoxide, hydroxyl radical and NO scavenging assays, Reducing power assay and DPPH assay. Also the *invitro* antiproliferative activity was studied by MTT assay on HaCaT skin cell line using the extract. These studies were shown that the extract is having antimicrobial, antioxidant and antiproliferative efficacy.

**Key words :** *Strychnos colubrina*, chloroform extract antimicrobial, antioxidant, MTT assay.

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