

***In vitro* Anti-Arthritic activity of *Nyctanthes Arborescens* Linn Leaf extract**

**Deepalakshmi J<sup>1\*</sup>, Edet Love Mendie<sup>1</sup>.**

<sup>1</sup>PG & Research Department of Biochemistry, Mohamed Sathak College of Arts and Science, (Affiliated to University of Madras) Sholinganallur, Chennai, India.

\*Corresponding author e.mail: trishabaskaran@yahoo.com

From National Conference on Interdisciplinary Research and Innovations in Biosciences, NATCON -2018.

Post Graduate & Research Department of Biochemistry, Mohamed Sathak College of Arts & Science, Sholinganallur, Chennai-600119, India. 24<sup>th</sup> & 25<sup>th</sup> January 2018.

American J of Bio-pharm Biochem and Life Sci 2018 January, Vol. 4 (Suppl 1): OP46

**ABSTRACT**

Phytochemicals and promising pharmacological activities are widely distributed in medicinal plants. *Nyctanthes arborescens* Linn is one of the most useful plant in India, it is used extensively in ayurvedic medicine for the treatment of various disease. In the present study fractions of ethanol, ethyl acetate and chloroform extracts of leaf of *Nyctanthes arborescens* Linn was pharmacologically validated for its anti arthritic properties using *in vitro* inhibition of protein denaturation model in various concentration (ie) 200, 400, 600, 800, 1000µg/ml. All the extracts showed positive response compared to standard diclofenac sodium. The ethanol extract showed significant protection against denaturation of protein. The order of effect of different extract were represented as follows ethanol> ethylacetate> chloroform. Thus we conclude that the anti-arthritic activities may be due to the effect of the phytochemicals present in the plant.