

13<sup>th</sup> International Conference on

# Laboratory Medicine & Pathology

June 25-26, 2018 | Berlin, Germany

## ANTI GLYCATION EFFECT OF WHITTON ROOT (EULOPHIA NUDA) IN-VITRO CONDITION IN RELATION TO DIABETES MELLITUS

**Dinesh Prasad Yadav** and **Sonia Sharma**

B &amp; C Medical College Teaching Hospital and Research Center Pvt Ltd, Nepal

Non enzymatic glycation takes place when elevated levels of reduced sugars react with amino groups of proteins and is called as advanced glycation end products (AGEs) responsible for diabetes mellitus. Hydroalcoholic extract of whitton root (*Eulophia nuda*) was tested for *in-vitro* inhibition of non-enzymatic glycation of IgG (immunoglobulin G). Plant extracts have their own importance and now being studied extensively due to little or no side effects in all aspects of life sciences from botany to medicine in biochemical research. In present study whitton root was selected and used to check the glycation inhibitory activity *in vitro* condition. Various combinations of glucose, protein and whitton root extracts were made under *in vitro* conditions and their activity was monitored with trichloroacetic acid treatment method at 350 nm. Glycated products/AGEs was more with high glucose and high protein concentration and these were decreased by highest concentration of whitton root extract i.e. 30 mg/mL or 300  $\mu$ L. Lower concentrations of plant extract produced either no or least response against advanced glycation end products (AGEs).

ddineshh2004@gmail.com