

3<sup>rd</sup> World Congress on

# NATURAL PRODUCTS CHEMISTRY AND RESEARCH & 12<sup>th</sup> WORLD PHARMA CONGRESS

October 16-18, 2017 Budapest, Hungary

## Standardization study of oral drops formula from *Paronychia argentea* extract

Suleiman Olimat

Jordan University of Science and Technology, Jordan

*Paronychia argentea* has been proved to show hypoglycemic activity and is useful as gastric analgesic, in bladder, prostate, abdominal ailments treatment, and stomach ulcers treatment has. Vanillic acid and luteolin are considered as the major active constituents of *P. argentea* responsible for its biological activity. The aim is to develop an oral drop formula from the plant extract depending on a HPLC method for standardization of *P. argenteae*, depending on vanillic acid as a main efficacious active constituent in the plant. 76 g dried plant was extracted with 1 liter methanol. A tiny peak of vanilic acid was shown at 7.6 min, although statistically significant propylene glycol proved to be better extraction solvent for vanilic acid producing major peak with higher response (AUC). Linearity of the assay method was evaluated by determining concentration levels from concentration (0.4–4  $\mu\text{g mL}^{-1}$ ); correlation coefficient obtained was 0.995. The best-fit linear equation obtained was  $Y=7e^7 X-9817$ . The precision of the vanillic acid peak in the test solution was checked by injecting six individual preparations prepared according to the description mentioned in method of analysis.

smalkhalil@just.edu.jo