

15<sup>th</sup> International Conference on ALTERNATIVE MEDICINE &  
12<sup>th</sup> World Congress on ENDOCRINOLOGY AND METABOLIC DISORDERS  
December 09-10, 2019 Bangkok, Thailand

## Natural phenolic acids from agriculture wastes: A potential skin whitening agents

Anam Umer

Department of Forensic Science, GC University Lahore

Several compounds including hydroquinon, azelic acid, kojic acid used to lighter skin tone and other skin disorders. Moreover these compounds are also reported to cure several diseases including melisma, mutagenicity and hyper pigmentation. Present study was designed to study the effect of selected natural phenolic acids through skin application, because they can alleviate symptoms and inhibit the development of various skin disorders. The selected phenolic compounds are a promising tool in eliminating the causes and effects of skin aging, skin damage and other skin diseases. Phenolic acids were isolated from berries fruits using solvent extraction. RP-HPLC analysis was performed to the identification and quantification of targeted phenolic acids. Total phenolic acid contents (TPC) were also measure spectrophotometrically. DPPH radical scavenging capacity and antioxidant activity of selected phenolic acids were determined and results were comparable with BHT. Results reported that Strawberry and blue berry contained maximum TPC followed by mulberry. The major phenolic acids detected were p-hydroxy benzoic acid, gallic acid, caffeic acid. Application against skin diseases proved that the selected phenolic acid have potential against skin aging and pigmentation.

anamumer9@gmail.com