

International Conference on

Tariq Mahmood, Clin Dermatol Res J 2018, Volume:3

CLINICAL & EXPERIMENTAL DERMATOLOGY

&

International Conference on

COSMETOLOGY AND TRICHOLOGY

December 05-06, 2018 | Dubai, UAE

Photoaging - an overview: Nanotechnology and photoprotection

Tarig Mahmood

University of Central Punjab, Pakistan

Skin is the outermost part of our body which is continuously exposed external assaults especially UV radiations. Prolonged exposure of unprotected skin to ultraviolet radiation (UVR) includes inflammation, premature photoageing, DNA damage, photocarcinogenesis, and immunosuppression. Five most significant signs of aging skin are; wrinkles, dark spots and uneven skin tone, sagging, dry skin and open visible pores. Sunscreen will continue to be an important component of Photoprotection. The active ingredients in topically applied sunscreens generally fall into two categories: organic or inorganic. Among inorganic actives, nanosized TiO 2 and ZnO are being used since 1980. These first generation

nano sunscreens shown various disadvantages which will be discussed in this talk. The current sunscreens on the market are more aesthetically acceptable and superior to older generation sunscreens due to more advanced nanoparticle technology. Emphasis of discussion will be on encapsulation efficiency, stability and degradation in blood circulation, endocytosis by target cells, endosomal escape, delivery efficiency, and toxicity of nanoparticles. To overcome these obstacles, many types of nanocarriers are proposed; broadly into three categories; (i) lipid-based nanoparticles, (ii) polymer-based nanoparticles, and (iii) inorganic nanoparticles (Figure 1).

Biography

Tariq Mahmood completed his college education in 2001and moved to Bahawalpur City in order to receive his Pharm D degree in Pharmacy from the Islamia University of Bahawalpur, Bahawalpur

dr.tariq@ucp.edu.pk

Notes: