

 MINDSHARE

# Environment & Biodiversity Conservation



2021

## Environment and Biodiversity Conservation

Editors

*Dr. Monowar Alam Khalid*

*Dr. Vinay Praveen Sharma*

*Dr. Tabassum*

# Nanostructured Lipid Carrier System for the Treatment of Skin Cancer: A Review

Sonam Dwivedi, Iffat Zareen Ahmad

*Natural Products Laboratory, Integral University, Lucknow*

Corresponding author's Email: [sonam.dwivedi7@gmail.com](mailto:sonam.dwivedi7@gmail.com)

## ABSTRACT

Skin cancer is the abnormal growth of the skin. Intense solar radiation causes suntan, premature ageing which can ultimately lead to skin cancer. To protect our skin from the sun it is necessary to work on UV blockers and their effective path of delivery. Nanostructured lipid carriers (NLCs) are made of a mixture of solid lipids and liquid lipids and it enhances the solubility and bioavailability, drug loading capacity which makes them a suitable drug delivery carrier for the topical application and also permits to load 70 % UV blocker. In this review, the disease burden, its pathogenesis due to genetic alteration in the p53 tumor suppressor gene are explored further the types of NLCs and their use in various ways for skin are discussed. Literature was searched on PubMed, Google Scholar, Web of Science and Science direct for studies. I also assessed the global trends for skin cancer worldwide through the Global Burden of Disease Study database. The rate of change in skin cancers varied among countries. Squamous cell carcinomas increased during this time. Men have occurred