

## A Novel combination of Flavonoids and phytochemotherapy for the treatment of Vitiligo

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### Abstract

Vitiligo is one of the prominent skin disorder mainly caused due to the deficiency of the pigment melanin in our body. Though various treatment methods are available, most of them are lacking to show the therapeutic efficacy up to the mark. So, in this proposed work we tried to implement the use of the flavonoid as an adjuvant with the phytochemotherapy for the treatment of Vitiligo. For this purpose we employed the use of the flavonoid Hesperidin. It is used as a natural ingredient which is used as a novel combination loaded in lipid based Nano emulsion gel. This strategy employed can lessen the exposure time for the UVA therapy and UV radiation in psoralen. Vitiligo was induced in C57BL/6 mice with the help of Monobenzene and treated using our prepared formulation. The Nano emulsion gel formulated was prepared and then characterisation studies were carried out. *In vivo* studies were carried out in the animal model after the induction of Vitiligo. It was proved that our prepared formulation is supporting with the repigmentation. Hence from the evidence from the reports it is proven that the use of the hesperidine with the phytochemotherapy is effective for the treatment of vitiligo.



### Biography:

R Suresh Kumar is working as an assistant professor in the department of Pharmaceutics at JSS College of Pharmacy, Ooty from the past 14 Years and is the coordinator of the Department of Pharmaceutics. He is the reviewer, editor and ambassador of various reputed journals. He published around 48 articles in both National and International Journals, also guiding 6 Research Scholars and guided more than 40 post graduates in their research works. He received more than 8 fellowships from various government agencies for the research proposals.



### Speaker Publications:

- 1 "Lipid-Based Nano Formulation Approach to Target Brain for the Management of Tuberculosis through Intranasal Delivery: Formulation Development and Evaluation", Suresh Kumar, Indian Journal of Pharmaceutical Education and Research. 54. s189-s199. 10.5530/ijper.54.2s.75.
2. "A Forecast on Strategies for Regulatory Requirement of Drug Product Registration in African Pharmaceutical", Research Journal of Pharmacy and Technology. 13. 2966. 10.5958/0974-360X.2020.00525.9.2020.
3. "Will the polyphenol and adapalene combination be a good strategy on acne vulgaris?", Suresh Kumar, Medical Hypotheses.2019,133.109409.10.1016/j.mehy.2019.109409.
4. "Implementation of Haemo-vigilance in India As a National Perspective", Suresh Kumar Applied Clinical Research, Clinical Trials and Regulatory Affairs.(2019), 06. 10.2174/2213476X06666190715162937.
5. "Can curcumin along with chemotherapeutic drug and lipid provide an effective treatment of metastatic colon cancer and alter Multidrug resistance?", Suresh Kumar, Medical Hypotheses. (2019),132. 109325.10.1016/j.mehy.2019.109325.

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