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Biopolymers and treatment strategies for wound healing: an insight view.

Dr. Madhu Gupta

Delhi Pharmaceutical Sciences & Research University, New Delhi, India.

Abstract

Chronic, non-healing diabetic wounds put a massive economic burden on health services causing patient incompliance and discomfort. Thorough interpreting of chronic wound pathophysiology led to the fabrication of targeted systems of drug delivery that can improve and accelerate the wound healing process. Natural polymers or biopolymers are now explored for the fabrication of wound dressings. Hence, in this review article, the pathophysiological aspects of chronic wounds, current treatment approaches, and potential biomaterials employed for treating wounds are explicated. The main emphasis is on biopolymers which aid in creating innovative systems based on nanotechnology for effective skin generation in chronic wounds.

Biograph :

Dr. Madhu Gupta is working as an Associate Professor in Delhi Pharmaceutical Science and Research University, New Delhi. She has research experience pertaining to drug delivery to nanoformulations for magical molecule delivery, bioligands for targeting of bioactives and drug moiety, biopolymers, cancer nanomedicine as well as topical delivery that is carried out at Department of Pharmaceutical Sciences, Dr. H.S. Gour Central University, Sagar. She has over 80 research publications to her credit published in journals of high scientific impact and contributed 30 chapters in various renowned books and to several international and national books. She has the recipient of Research Excellence of the Year 2020, Youth Education Icon of the Year 2018, Young Scientist Award, Best Administrative Service Award, IDMA-G.P. Nair award and Prof. C.S. Chauhan award. She has also filed the PCT patent for effective wound healing therapy. She has the awardees of various national and International conference in the form of best oral and poster presentation award. as APTI and other. She has also organized so many National and international Conferences.

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