



Edited by

DENISA FICAI

ALEXANDRU MIHAI GRUMEZESCU

NANOSTRUCTURES FOR NOVEL THERAPY

Synthesis, Characterization and Applications

NANOSTRUCTURES IN
THERAPEUTIC MEDICINE SERIES

Home 15 More ▾



Chapter

Novel carriers and approaches: Insight for psoriasis management

December 2017

DOI: [10.1016/B978-0-323-46142-9.00024-4](https://doi.org/10.1016/B978-0-323-46142-9.00024-4)

In book: Nanostructures for Novel Therapy

Surbhi Dubey · Rajeev Sharma · Nishi Mody · Suresh P Vyas

Research Interest

Citations

Recommendations

Reads

[See details](#)

2.7

4

0 new 0

0 new 76

Add full-text

Share ▾

More ▾

Overview

Stats

Comments

Citations (4)

References (6)

...

Abstract

Psoriasis, one of the dreadful skin autoimmune disorder is characterized with relapsing episodes of inflammation and hyperkeratosis. Presently, various treatment approaches with different antipsoriatic drugs having different modes of action and routes of administration, are established. Among the currently available treatments including topical therapy, phototherapy, and systemic therapy, none of the treatment for psoriasis is found to be safe, effective, and able to completely cure the disease. In addition, long-term use of the available treatment choices are associated with related toxicity and inappropriate cosmetic appearance. The need to overcome the drawbacks of the conventional therapeutic approaches has encouraged the researchers to develop and introduce newer formulations utilizing colloidal drug-delivery systems, such as liposome, transferosome, niosomes, ethosomes, solid lipid nanoparticles, microspheres, micelles, dendrimers, etc. Present chapter is an attempt to contemplate on psoriasis in terms of pathogenesis, role of cytokines, currently available treatment options pertaining to mode of action, pharmacokinetics, major hindrances in psoriasis treatment, side effects of individual antipsoriatic drugs, and recent developments in the delivery of various antipsoriatic drugs through lipid-based novel colloidal drug carriers.



V S N Malleswara Rao Peram and 2 others requested the full-text of this research.

You can share the full-text publicly or send it to them privately.

[View requests](#)

Public Full-texts



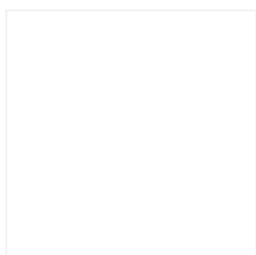
**Add
full-
text
publicly**

Add the full-text publicly to create visibility and make it available to everyone.

**Store
full-text
privately**

Store the full-text privately so you and your co-authors can access it easily.

Similar research



Major Hurdles for Brain Tumor Therapy and the Ways to Overcome Them

[Article](#)

[Full-text available](#)

January 2011 · Journal of Pharmacy Research

Ankita Thakur · Avinash Gahane · santosh singh Bhadoriya · [...] · Himanshu Mishra

Recently several advances have been done for delivery of anticancer agents in brain tumours, but their efficacy is limited due poor penetration through the lipophilic Blood-brain barrier (BBB). Invasive systems including convection enhanced delivery and disruption of BBB though are effective but are not always...

349 Reads · 3 Citations

[Download](#)

Nanocarrier-Based Combination Chemotherapy for Resistant Tumor: Development, Characterization, and Ex Vivo Cytotoxicity Assessment

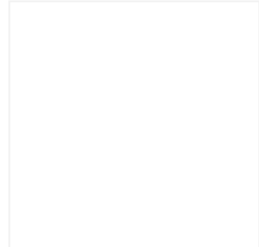
[Article](#)[Full-text available](#)

October 2018 · AAPS PharmSciTech

 Sarjana Raikwar ·  Sonal Vyas ·  Rajeev Sharma · [...] ·  Suresh P Vyas

A folic acid-conjugated paclitaxel (PTX)-doxorubicin (DOX)-loaded nanostructured lipid carrier(s) (FA-PTX-DOX NLCs) were prepared by using emulsion-evaporation method and extensively characterized for particle size, polydispersity index, zeta potential, and % entrapment efficiency which were found to be...

161 Reads · 9 Citations



Multifunctional nanomedicines: Potentials and prospects

[Article](#)[Full-text available](#)

October 2012 · Drug Delivery and Translational Research

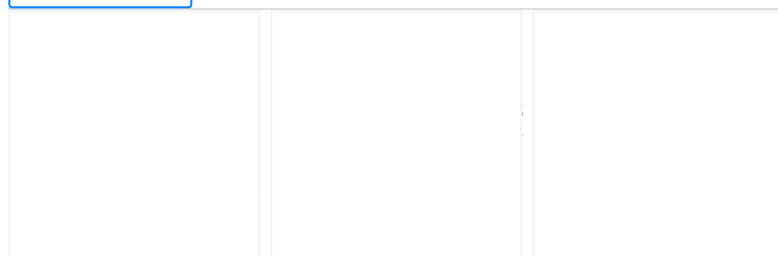
 Udit Agrawal ·  Madhu Gupta ·  Rajesh S Jadon · [...] ·  Suresh P Vyas

Nanotechnology is considered to be significant innovative revolution that have found wide spectrum of applications in the fields ranging from medicine, diagnostics, electronics, and communications. Currently used pharmaceutical nanocarriers, such as dendrimers, micelles, nanoparticles, polymeric nanoparticl...

105 Reads · 13 Citations

[Download](#)

Recommend Follow Share



Emergence of Polymer-Lipid Hybrid Systems in Healthcare Scenario

[Chapter](#)[Full-text available](#)

January 2018

 Anamika Jain ·  Laxmikant Gautam ·  Nikhar Vishwakarma · [...] ·  Suresh P Vyas

Nanotechnology has drawn the attention of many researchers for the delivery of therapeutics used in various medical applications. Liposomes and polymeric nanoparticles represent promising nanocarriers that efficiently encapsulate drugs, which prevents their degradation along with the control and sustain...

166 Reads · 3 Citations



Polymeric Nanocarriers for the Oral Delivery of Bioactives

[Article](#)[Full-text available](#)

December 2014 · Current Drug Therapy

 Rajeev Sharma ·  Udit Agrawal ·  Suresh P Vyas

The oral delivery of therapeutics is of paramount importance to medical application and advancement. There has been remarkable advancement in the field of polymeric formulations for oral delivery of therapeutics. Novel polymeric formulation like polymeric nanoparticles, micelles and dendrimers are...

44 Reads · 3 Citations

[Download](#)[Recommend](#)[Follow](#)[Share](#)[View more related research](#)