CONFERENCE PROCEEDINGS

OF

INTERNATIONAL VIRTUAL CONFERENCE ON

"COVID-19 PANDEMIC: ROLE, RESPONSIBILITIES, AND CHALLENGES FOR PHARMACEUTICAL RESEARCH, INDUSTRY, AND ACADEMIA"

ORGANIZED BY

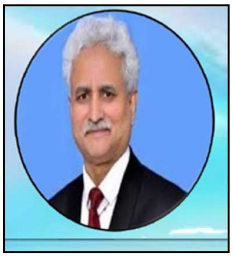
DEPARTMENT OF PHARMACEUTICAL SCIENCES,

MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR, RAJASTHAN, INDIA

Published by
International Journal of Pharmacy and Life Sciences
(ISSN:0976-7126)
Indexed in:

Contents

The organizing Committee



PATRON
Prof. Amarika Singh
Hon'ble Vice Chancellor, MLSU Udaipur

CO-PATRON
Prof. G.S. Rathore
Dean UCOS, MLSU Udaipur

CONVENOR
Prof. C. P. Jain
Head,
Dept. of Pharm. Sci.,
MLSU, Udaipur

ORGANIZING SECRETARY

Dr. Joohee Pradhan
Assistant Professor
Dept. of Pharm. Sci.,
MLSU, Udaipur

ORGANIZING SECRETARY

Dr. Deepak Choudhary
Assistant Professor
Dept. of Pharm. Sci.,
MLSU, Udaipur

Telefax: 0294-2470597 (O) 2471844 (R) 9621246077 (M)
Email: vcmlsu@mlsu.ac.in

Mohanlal Sukhadia University
University Campus, Udaipur-313 001 (Rajasthan)

मोहनलाल सुखाड़िया विश्वविद्यालय
विश्वविद्यालय परिसर, उदयपुर-313 001 (राजस्थान)

Prof. Amarika Singh
Vice-Chancellor

No. PSVC/MLSU/2021/897
Date : 08-07-2021

MESSAGE

It is a matter of great pleasure that the Department of Pharmaceutical Sciences, Mohanlal Sukhadia University, Udaipur is organizing an international virtual conference on **"Covid-19 Pandemic: Role, Responsibilities, and Challenges for Pharmaceutical Research, Industry, and academia"** on 10th July 2021.

I believe that the emerging issues regarding the topic selected will be thoroughly discussed in the Conference in the light of research needs of the industry and expectations from the academic and research Institutions. Such deliberation certainly helps scientists working in different fields to exchange their ideas, views, and findings. The brainstorming during the conference might build broad consensus regarding the future line of action.

The Conference is sure to provide our scientists in the fields of Pharmaceuticals, Medicine, and Basic Sciences to interact with experienced professionals working at the International Level.

I congratulate the organizers for selecting a topic of immense current importance and attempting to address the issue at the global level.

I convey my best wishes for the success of the Conference.

8/7/21

(Prof. Amarika Singh)
Vice Chancellor

OP-11

Nano Drug delivery system for Treatment of Cancer

Deepak Choudhary*

Department of Pharmaceutical Sciences, Mohanlal Sukhadia University, Udaipur, Rajasthan (India)

Email: - deepakseervi@gmail.com, deepakseervi@mlsu.ac.in

Mob. +919413878441

Abstract:

Cancer is a crucial public health load in both developed and developing countries and remains one of the world's most devastating diseases. Cancer cells usually invade and destroy normal cells due to imbalance in the body. Chemotherapy is a major line of the treatment for localized and metastasized cancers. Recently, nano-particulate drug delivery systems containing anti-cancer agents have gained much attention due to their unique accumulation behaviour at the tumour site large surface-to-volume ratios. Nanotechnology can be defined as the science and engineering of creating and assembling objects on a scale of size in range of 1-100nm.Nanoparticle-based drug delivery systems have gained enormous acceptance due to their ability to overcome biological barriers, successfully deliver hydrophobic therapies, and specially target the tumor site. Further, Targeted drug delivery systems can improve efficacy and reduced toxicity for anticancer agents. Currently, many formulations of nanocarriers are utilized including lipid-based, polymeric and branched polymeric, metal-based, magnetic, and mesoporous silica. This review summarizes recent advancement and challenges in nanoparticle-based drug delivery systems for treatment of cancer.

Key Words: Nano drug delivery system, Cancer, Targeted drug delivery systems, Nanocarriers