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3.2.2 Summary of the Cover Page, Content Page & First Page of the Publication Indicating ISBN Number and Year of Publication for Books & Chapters AY 2023-2024

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**3.2.2 Summary of book/ book chapter published per teacher for
2023-24**

Sr.no.	Name of Teacher	Number of book / book chapter Published	Year of publication	ISBN number of the book, book chapter and proceeding	Total no. of book/ book chapter published
1	Mrs. Bhavana Kapse	01	2023	978148044339	04
2	Dr. Smita Sadar	01	2023	9786206770787	
3	Dr.V.R.Vaidya, Dr.S.V.Pandya	01	2023	9788119117598	
4	Dr.P.M.Chaudhari	01	2023	978-981-5079-99-9	

3.2.2 Summary of book/ book chapter published per teacher for 2023-24

Sr no	Title of Book/Book Chapter	Name of the Author	Year of Publication
1	Pharmacotherapeutics	Mrs. Bhavana Kapse	2023
2	Pathophysiology note	Dr. Smita Sadar	2023
3	Perspectives of Different Validation and Calibration Techniques	Dr.V.R.Vaidya, Dr.S.V.Pandya	2023
4	Recent Advances of Multifunctional Nanomedicine	Dr.P.M.Chaudhari	2023



PCI Syllabus - D-Pharmacy

Pharmacotherapeutics



Jyoti V. Chaudhari
Sandhya R. Lanke
Bhavana P. Kapse

first edition : apr. 2023



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As per Latest Syllabus of
PHARMACY COUNCIL OF INDIA

D. Pharmacy

PHARMACOTHERAPEUTICS

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Welcome to the "Pathophysiology Notes," an exclusive guide tailored for Bachelor of Pharmacy (B. Pharmacy) students. Pathophysiology stands as a pivotal discipline delving into the fundamental mechanisms of diseases, laying the groundwork for understanding how deviations from normal bodily functions contribute to various health conditions. This guide has been meticulously curated to accompany your academic journey, providing a clear and concise explanation of intricate pathophysiological concepts. With a focus on clarity and relevance, these notes aim to simplify complex ideas, aiding in your grasp of fundamental principles effortlessly. For B. Pharmacy students, mastering pathophysiology holds immense importance in comprehending the mechanisms of action of drugs, their therapeutic effects, and adverse reactions. It forms the cornerstone of your understanding in pharmacology, therapeutics, and clinical pharmacy, equipping you with a robust framework to excel in academic pursuits and future professional endeavours.

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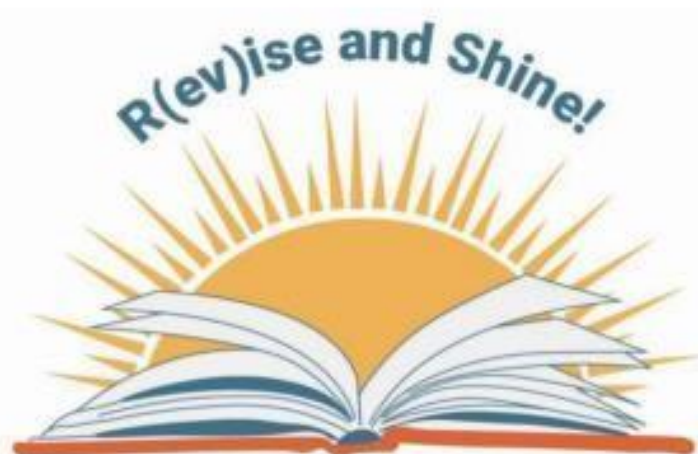
Anuj Nahata & Shivani Nahar
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Pathophysiology Notes

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ROLE OF NANOTECHNOLOGY IN CANCER THERAPY

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Role of Nanotechnology in Cancer Therapy

eBook: US \$79 Special Offer (PDF + Printed Copy): US \$136

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ISBN: 978-981-5080-00-1 (Print)

ISBN: 978-981-5079-99-9 (Online)

Year of Publication: 2023

DOI: [10.2174/97898150799991230101](https://doi.org/10.2174/97898150799991230101)[Rate This Book](#)

Introduction

Role of Nanotechnology in Cancer Therapy gives an overview of the innovative nanocarrier-based approaches for managing various cancers such as gastric, skin, lung, and prostate cancers. The book also explores the evolving targeting approaches specific to cancer and the immunotherapy-based nanomedical approach. Several drug-delivery systems which reduce the overall toxicity of cytotoxic drugs and increase their effectiveness and selectivity are also discussed in this book.

Key features:

- Discusses the potential benefits and therapeutic applications of nanoparticles in cancer management
- Provides information about therapy in a range of cancers
- Discusses recent developments in cancer nanomedicine including targeted therapy, immunotherapy nanoparticles and dual drug delivery
- Includes safety and toxicity considerations
- Provides references for advanced readers

This book will inform a broad range of readers including undergraduate and postgraduate students, oncologists, pharmacists, and researchers involved in nanomedicine and nano-drug delivery about current advancement in cancer nanomedicine.

Audience: undergraduate and postgraduate students, oncologists, pharmacists, and researchers involved in nanomedicine and nano-drug delivery about current advancement in cancer nanomedicine.

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Pallavi M. Chaudhari*

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ROLE OF NANOTECHNOLOGY IN CANCER THERAPY

Editor:
Priya Patel

Bentham Books

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Role of Nanotechnology in Cancer Therapy, 2023, 24-38

CHAPTER 2

Recent Advances of Multifunctional Nanomedicine

Pallavi M. Chaudhari^{1*}

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Abstract: The revolution of nanomedicine has emerged as an array of biological products in the pharmaceutical field. Their peculiarity of nanosize has been a benefit for the detection and prevention of diseases by application of engineered nanodevices and nanostructures. This presents range of opportunities, that are suitable for most drugs, prevents side effects, and enhances patient compliance. Nanomedicine has fascinated medical research in developing different multifunctional nanostructures like dendrimers, nanoparticles, micelles, quantum dots, carbon nanotubes, etc. However, there are still certain impedes to bringing out the best amongst these nanomedicines. This chapter will spotlight the recent advances of multifunctional nanomedicine, solely to combat cancer disease conditions, that can offer improvement in the pharmacokinetic and pharmacodynamic profiles of the conventional approaches and optimize the efficacy of the existing anticancer drugs. In recent years, combination therapy has also shown good improvement in cancer therapy as compared to monotherapy. The theranostic application can offer a good alternative to cancer treatment. So, when the insights are combined with new nanotechnology-based therapy, targeted drug delivery can be obtained to avoid the side effects, but the concern of their toxicity should also be noted. Hence, nanomedicine represents one of the advanced fields that combine nanotechnology and medicine for improved efficiency and safety to human health, through the study of elucidation of cellular and molecular mechanisms, to design performant nano-delivery as an efficient tool for the treatment of cancer. Thus, the exploration of the properties needs to be understood to execute the unmet needs and attain project cost benefits.

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