



**Teerthankar Education Society's
Dr. Shivajirao Kadam College of Pharmacy, Kasabe Digraj**

CRITERION 3: Research, Innovations and Extension

3.3: Research Publication and Awards

**Metric
3.3.2**

Number of books and chapters in edited volumes/books published and papers published in national / international conference proceedings per teacher during last five years

YEARWISE DETAILS

Year	2021-22	2020-21	2019-20	2018-19	2017-18
Number	15	08	01	0	03

Responses: 27



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LIST OF BOOK / BOOK CHAPTERS

Sr. No.	Name of teacher	Title of Book Published	ISBN No.	National/ International	Year of publication	Name of publisher	Page Nos.
BOOKS PUBLISHED							
2021-22							
1	Dr.Pankaj Jadhav	pharmaceutics practical II	978-93-92319-14-3	National	2022	Geervanjyoti prakashan	5 to 6
2	Dr.Pravin Pawar	Pharmaceutics practical II	978-93-92319-14-3	National	2022	Geervanjyoti prakashan	5 to 6
3	Dr.Sandeep Patil	A practical book of pharmacology III	978-93-94607-82-8	National	2022	Astitva prakashan	7 to 9
4	Mr. Gajanan Patil	A practical book of pharmacology III	978-93-94607-82-8	National	2022	Astitva prakashan	7 to 9
5	Mr.Rameshwar Ardad	A practical book of pharmacology III	978-93-94607-82-8	National	2022	Astitva prakashan	7 to 9
6	Mr.Rameshwar Ardad	Pharmaceutical organic chemistry II	978-93-94607-73-6	National	2022	Astitva prakashan	10 to 11
7	Dr.Pankaj Jadhav	Pharmaceutical Organic Chemistry II	978-93-94607-73-6	National	2022	Astitva prakashan	10 to 11
8	Dr. Suhas Awati	Practical Pharmaceutical Chemistry	978-93-82322-84-9	National	2022	Pharma Career Publications	12 to 13
9	Mr. Nilesh Jangade	Pharmaceutical organic chemistry III	978-93-95300-73-5	National	2022	Astitva prakashan	14 to 16



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10	Mr.Rameshwar Ardad	Pharmaceutical organic chemistry III	978-93-95300-73-5	National	2022	Astitva prakashan	14 to 16
11	Dr.Sandeep Patil	Review on utilization of plants and their traditional uses	978-93-91244-95-8	National	2022	Press publisher, Mumbai	17 to 20
12	Dr.Sandeep Patil	A practical book of Human anatomy and Physiology	979-88-86297-59-1	National	2022	Press publisher, Mumbai	21 to 22
13	Dr.Sandeep Patil	DNA The Secret of Life	NA	National	2022	Press publisher, Mumbai	23
2020-21							
14	Dr.Pankaj Jadhav	Enhancement of solubility and dissolution rate of Griseofulvin	978-620-2-51412-5	National	2020	Lambert Academic Publishing	24 to 25
15	Dr.Pankaj Jadhav	A Textbook of Social Pharmacy	978-93-92867-17-0	National	2020	Pharma Career Publications	26 to 27
16	Dr. Suhas Awati	Antidiabetic potential of Bridelia retusa S. bark	978-620-2-52716-3	International	2020	Lambert Academic Publishing	28
17	Dr. Suhas Awati	Orphan disease and its treatment	978-602-2-51798-0	International	2020	Lambert Academic Publishing	29
18	Dr.Pankaj Jadhav	Calculations in Pharmaceutical Sciences	978-93-86084-32-3	National	2020	Nirali prakashan	30 to 31
19	Dr.Pankaj Jadhav	Concepts of Social and Preventive Pharmacy	978-93-80744-87-2	National	2021	Pharma Career Publications	32 to 34
20	Dr.Pankaj Jadhav	Identification of Phytopharmaceu	ASIN B0972DY	National	2021	Nirali prakashan	35 to 36



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		ticals	ZQV (ONLINE BOOK)				
2019-20							
21	Dr.Pankaj Jadhav	Thiadiazoles as a anti-inflammatory agent	978-620-2- 51565-8	National	2020	Lambert Academic Publishing	37 to 38
2017-18							
22	Dr.Pankaj Jadhav	Phytopharmaceuti cals	978-93- 88293-10- 5	National	2018	Nirali prakashan	39 to 40

LIST OF BOOK CHAPTERS

Sr. No.	Name of teacher	Title of the book chapter published	National/ International	Year of publication	Name of publisher	Page Nos.
2021-22						
1	Dr.Suhas Awati	Effect of medicinal plants against lung cancer	International	2021	springer	41
2	Dr.Suhas Awati	Microbiome in inflammatory lung disease	International	2022	springer	42
2020-21						
3	Dr. Pravin Pawar	Ocular Bioadhesive Drug Delivery Systems and Their Applications	International	2020	Scrivener Publishing	43
2017-18						
4	Dr. Pravin Pawar	Mucoadhesive Polymers for Drug Delivery Systems	International	2017	Scrivener Publishing	44
5	Dr.Sandeep Patil	study of flowers of various varieties of Hibiscus rosa sinesis L. as an Anti solar in	National	2017	Arvind Herbal Labs	45



**Teerthankar Education Society's
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Sr. No.1 & 2

Pharmaceutics Practical II

[F. Y. M. Pharm. (Sem. II) MPH205P]

As per PCI Syllabus for Postgraduate Students in Pharmaceutical Sciences

Mr. Jadhav P. A.

Assistant Professor,

Dr. Shivajirao Kadam College of Pharmacy, Kasabe Digraj, Sangli, Maharashtra

Dr. Pawar P. K.

Professor,

Department of Pharmaceutics, St. John Institute of Pharmacy & Research, Palghar (E), Maharashtra

Ms. Kadam S. S.

Assistant Professor,

Women's College of Pharmacy, Peth Vadgaon, Kolhapur, Maharashtra

Ms. Jadhav P. H.

Assistant Professor,

Annasaheb Dange College of B. Pharmacy, Ashta, Sangli, Maharashtra

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Sr. No.1 & 2

Pharmaceutics Practical II

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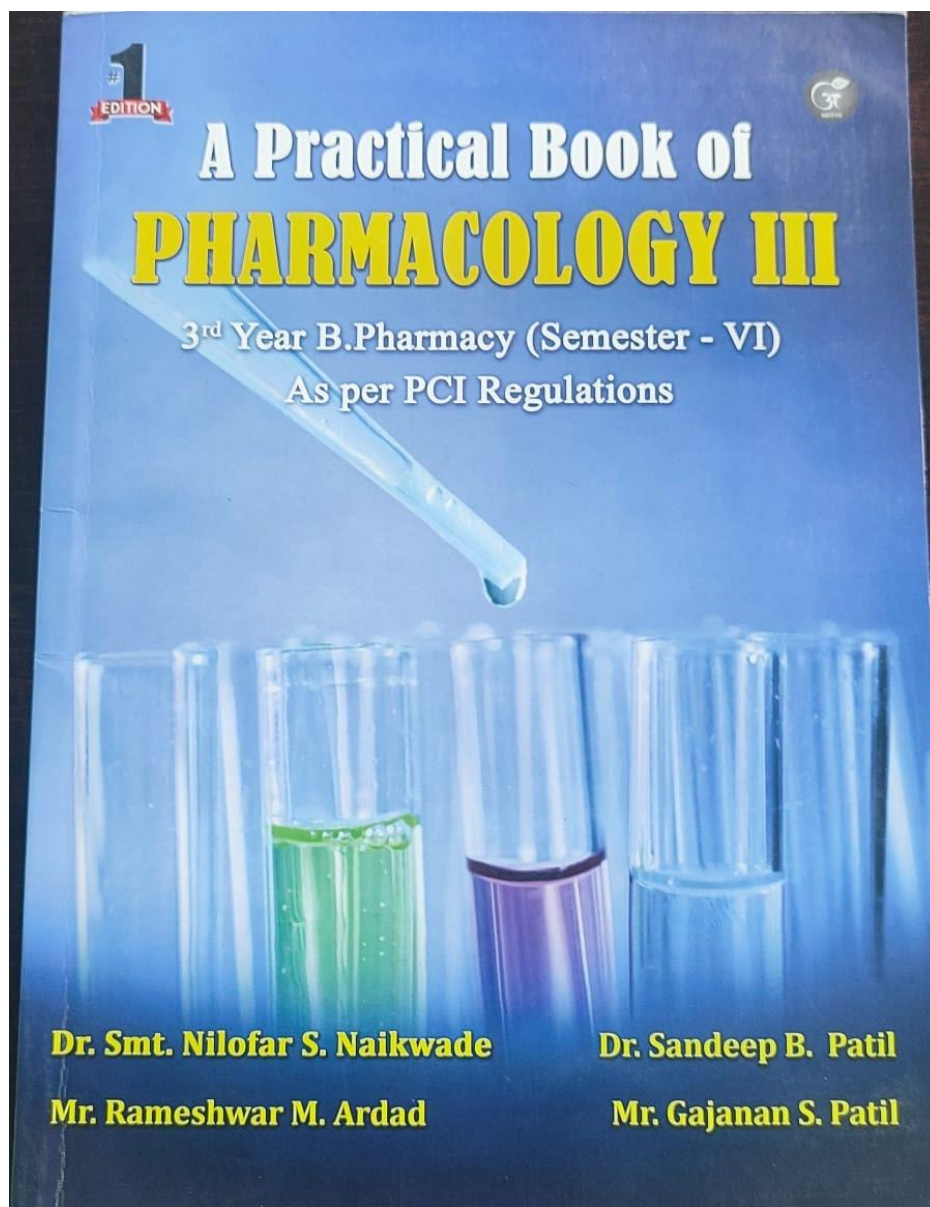


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Sr. No.3, 4 & 5



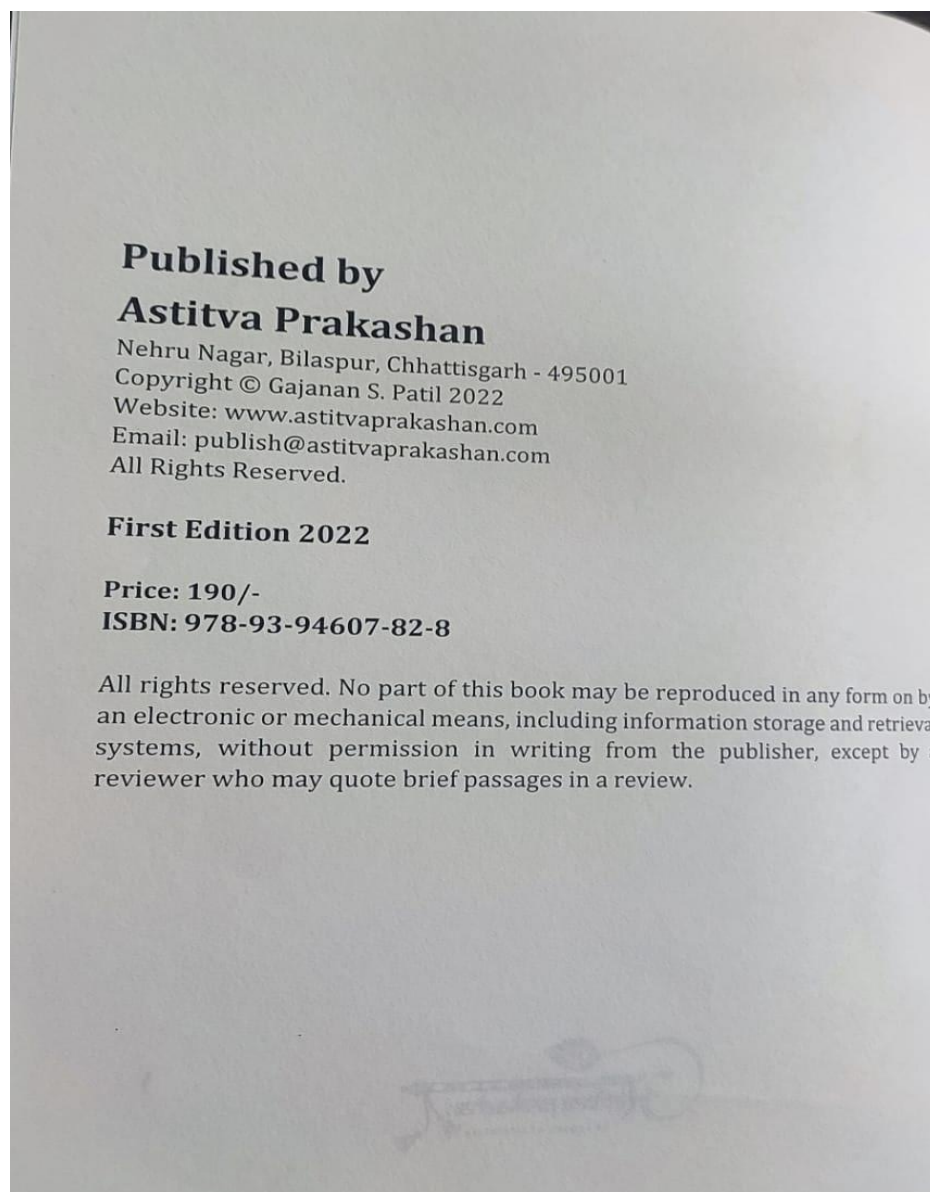


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Sr. No.3, 4 & 5





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Sr. No.3, 4 & 5


KEY FEATURES OF BOOK


1. Practical book based on PCI Regulations, Semester- VI
2. Practice questions for each experiment
3. At a glance, 70 Single Choice Questions
4. Simple language so as to easily comprehend

 **Dr. Smt. Nilofar S. Naikwade**
She is presently working as Professor and Head, Department of Pharmacology at Appasaheb Birnale College of Pharmacy, Sangli, District Sangli, Maharashtra, India. She has 30 years of academic, research, and administrative experience.

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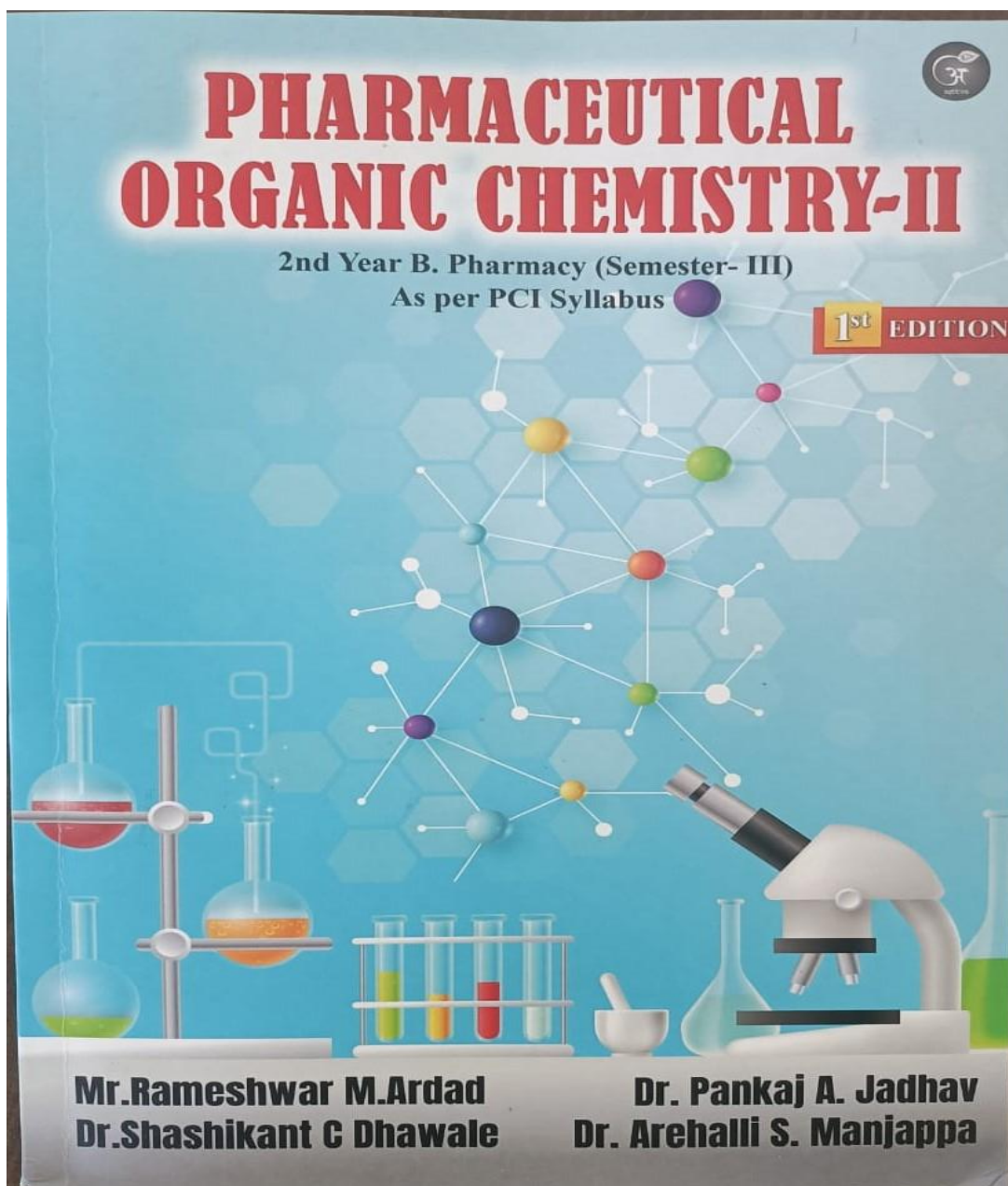


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Sr. No. 6 & 7

KEY FEATURES OF BOOK

1. Book based on PCI syllabus Semester-III
2. Basic organic Chemistry concepts
3. Important for GPAT exam preparation
4. Chapter with MCQ
5. Very simple Language explanations
6. Flow chart classification



Mr. Rameshwar M. Ardad, M. Pharm

He is currently working as an Assistant Professor at the Dr. Shivajirao Kadam College of Pharmacy Kasabe Digraj, Sangli.



Dr. Shashikant C. Dhawale, M Pharm Ph D, DIM

Former Director and currently working as a Professor at the School of Pharmacy, Swami Ramananda Teerth Marathwada University, Nanded




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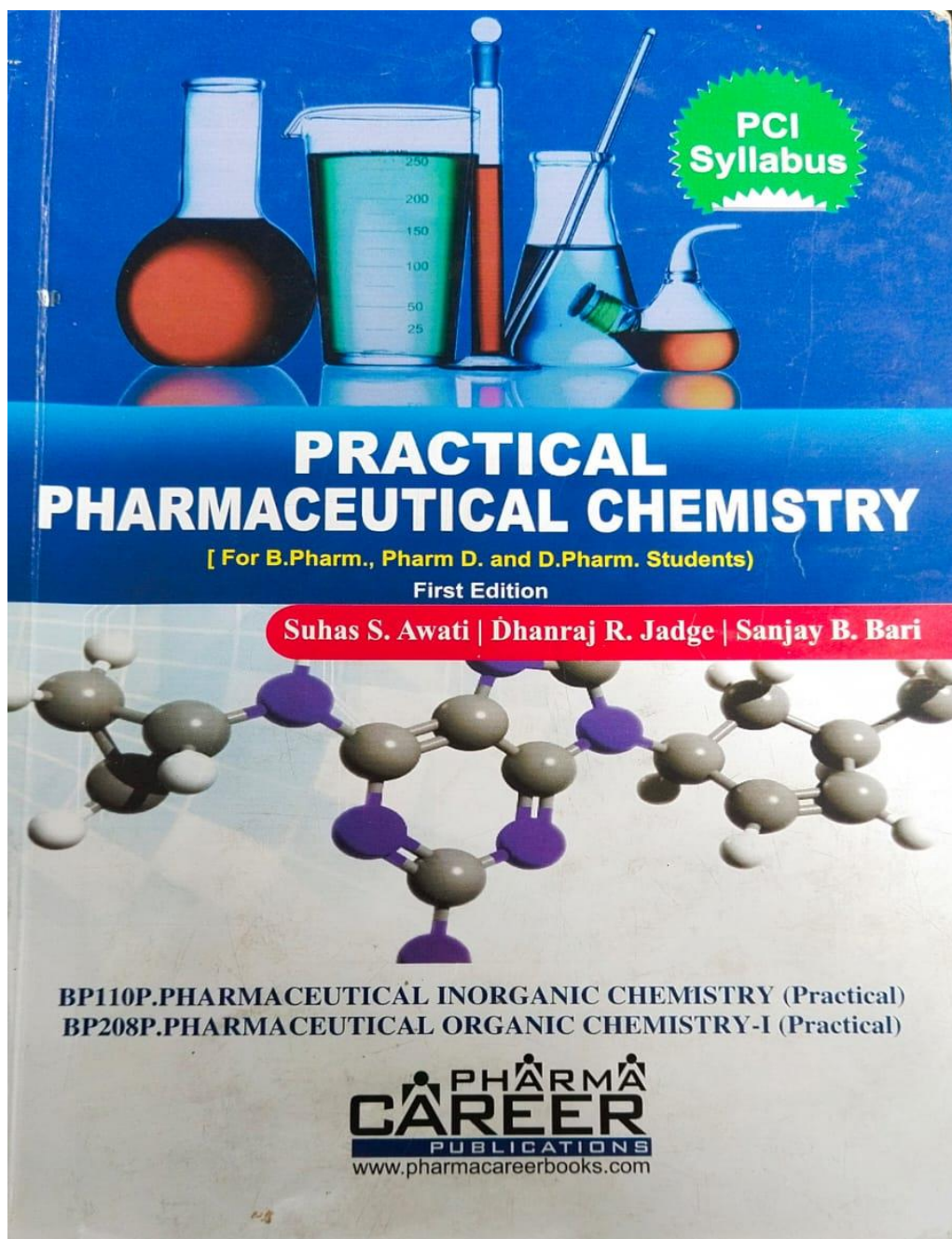


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Sr. No. 8

About the Book


Practical Pharmaceutical Chemistry is written as per the pattern set by the PCI. It covers all the required topics in an organized way such that the students will find all relevant information related to this subject, in one book without having to refer a number of other books for that same information. The book is compiled of three parts, viz., laboratory techniques, Pharmaceutical Organic Chemistry and Pharmaceutical Inorganic Chemistry. It explains laboratory techniques like calibration, filtration, distillation etc., along with basic concepts of chemistry of organic and inorganic compounds and their preparation, with the help of the ball and stick model. The students are bound to gain good information and training regarding their practicals through this book.

About the Authors

 **Mr. Suhas S. Awati** has completed B. Pharm from Appasaheb Birnale College of Pharmacy, Sangli, Maharashtra in 2006, M. Pharm (Pharmaceutical Chemistry) from KLES's College of Pharmacy, Belgaum, Karnataka, in 2009 and pursuing Ph.D. from Suresh Gyanvihar University, Jaipur, Rajasthan. Presently he is working as an Assistant Professor, Department of Pharmaceutical Chemistry, Dr. Shivajirao Kadam College of Pharmacy, K. Digraj, Dist. Sangli, Maharashtra. He has total 10 years of teaching experience. He has 14 research papers to his credit, published in various peer-reviewed national and international journals also. He has presented research papers in national conferences and attended different national level workshops. He has one book to his credit. He is a Life member of various professional associations like MSPC, APTI etc.

 **Dr. Dhanraj R. Jadge** has completed B. Pharm from Marathwada University, Aurangabad and M. Pharm from Pune University, Pune and Ph.D. in Pharmaceutical Sciences from University Department of Chemical Technology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. He has a long illustrious teaching experience of 23 years at various levels as Lecturer, Assistant Professor, Professor and Principal. Presently he holds the post of Principal at Annasaheb Dange College of B. Pharmacy, Ashta, Dist. Sangli, Maharashtra.

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 **Dr. Sanjay B. Bari** is Principal and Professor at H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur Dist: Dhule (M.S.). He has 23 years of teaching experience at Anuradha College of Pharmacy, Chikhli, Dist: Buldana (M.S.) and R. C. Patel Institute of Pharmaceutical Education and Research, Shirpur.

He did his Ph.D in Pharmaceutical Sciences (2006) under AICTE-QIP program from University College of Pharmaceutical Sciences, Kakatiya University, Warangal (A.P.).

He has written more than 160 review and research articles in various national, international journals and has thirteen books to his credit. He has received several national & international awards. He has supervised more than 65 students at M. Pharm. level Projects and 12 Ph.D (Pharmacy) students at KBCNMU, Jalgaon (M.S.). Currently, Dr. Bari is Chairman, Board of Studies in Pharmaceutical Chemistry, Academic Council Member, Member of Research Recognition Committee KBCNMU, Jalgaon. He is Life member of various professional associations like ISTE, IPA, APTI, ICS, IPS. He is also Co-ordinator, Faculty of Pharmacy, North Maharashtra University, Jalgaon.


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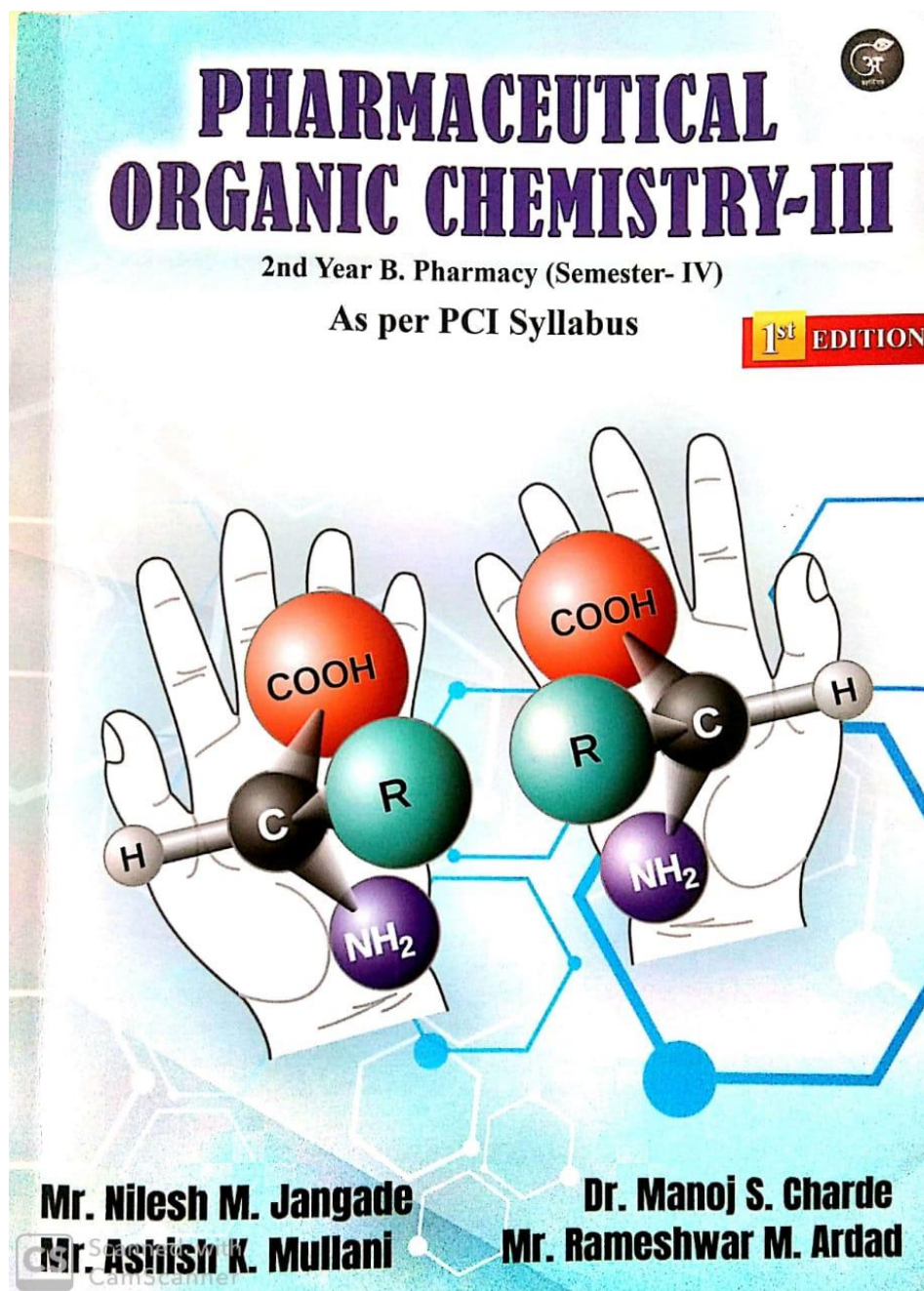


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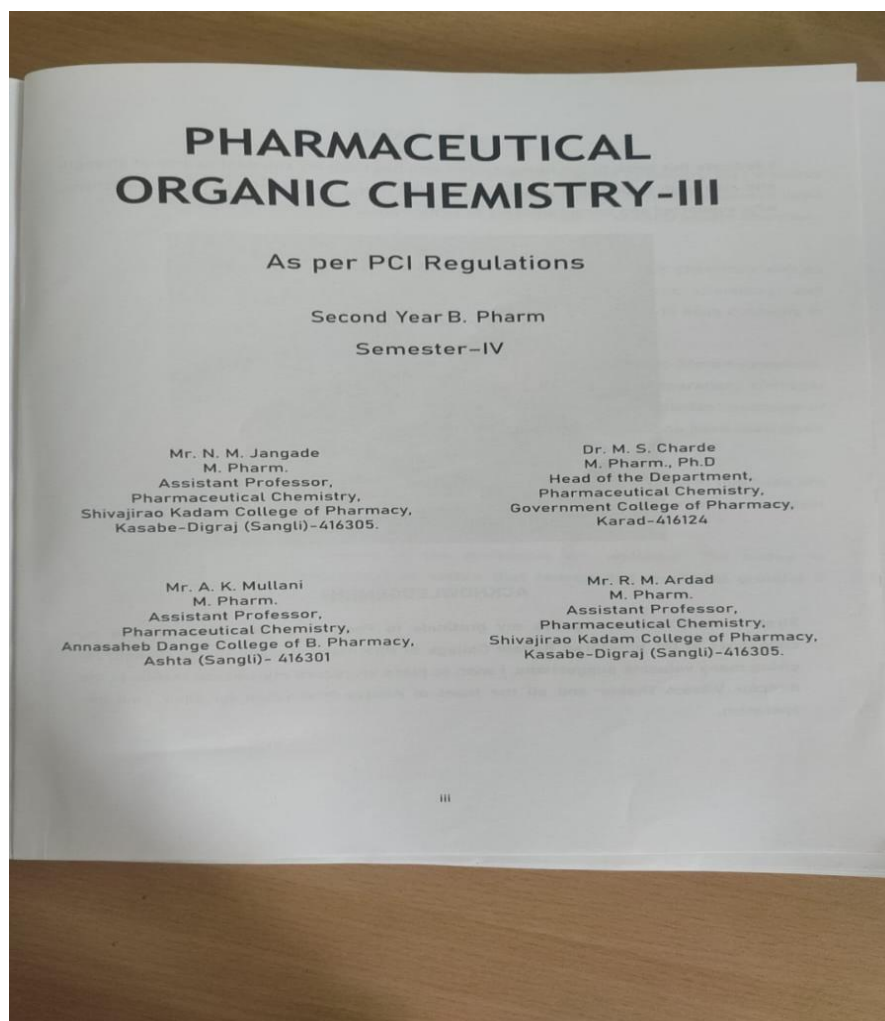


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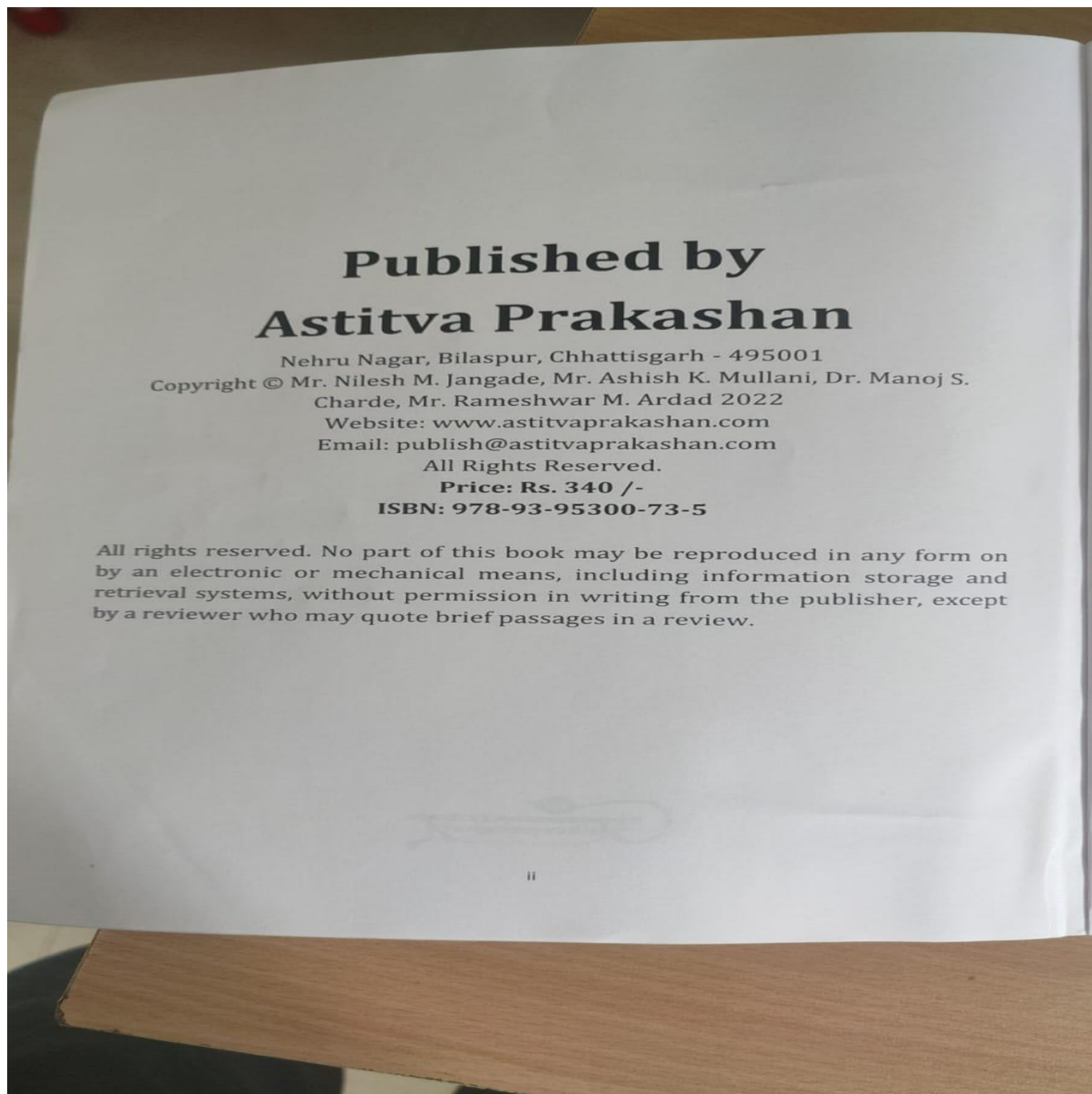


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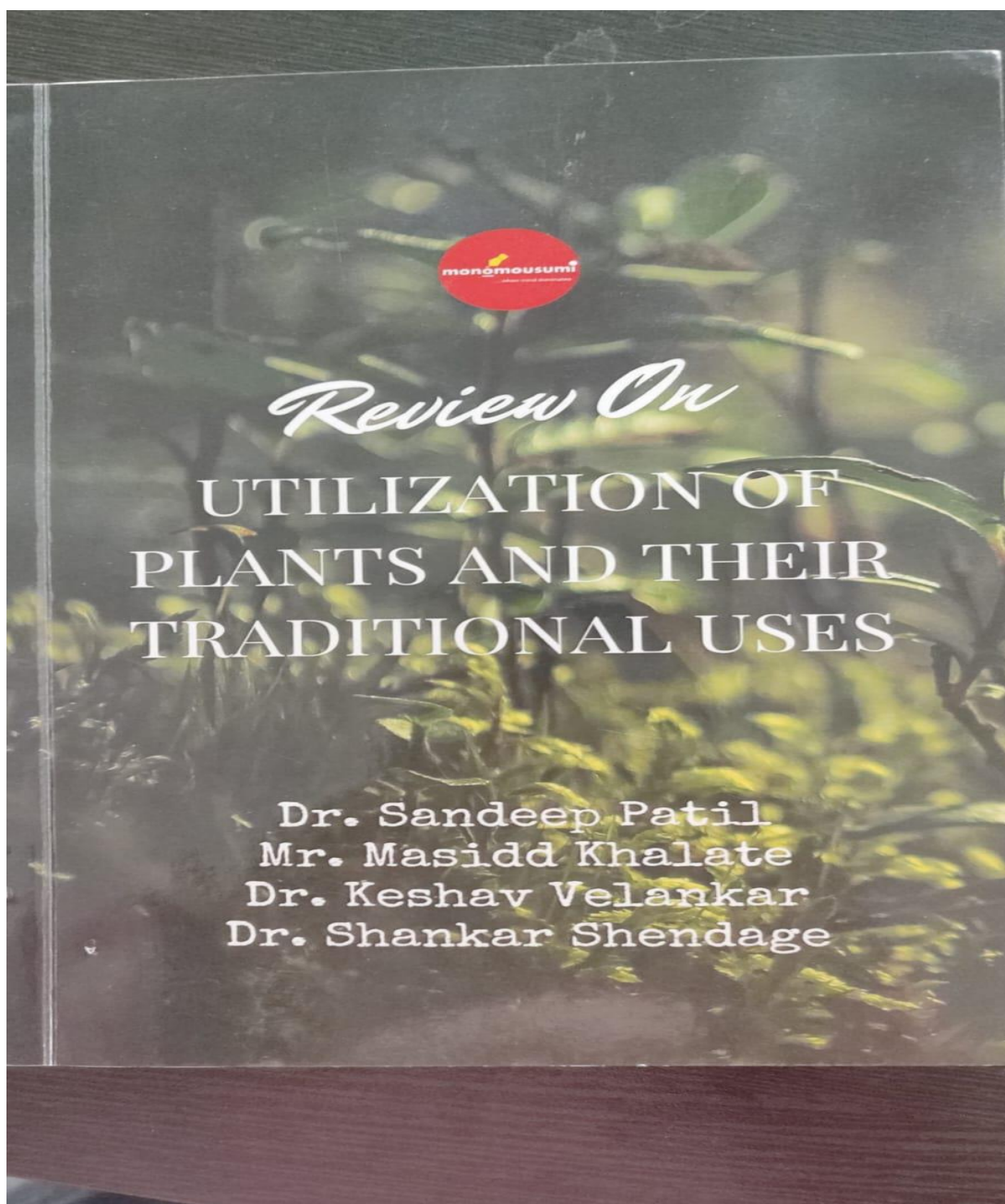


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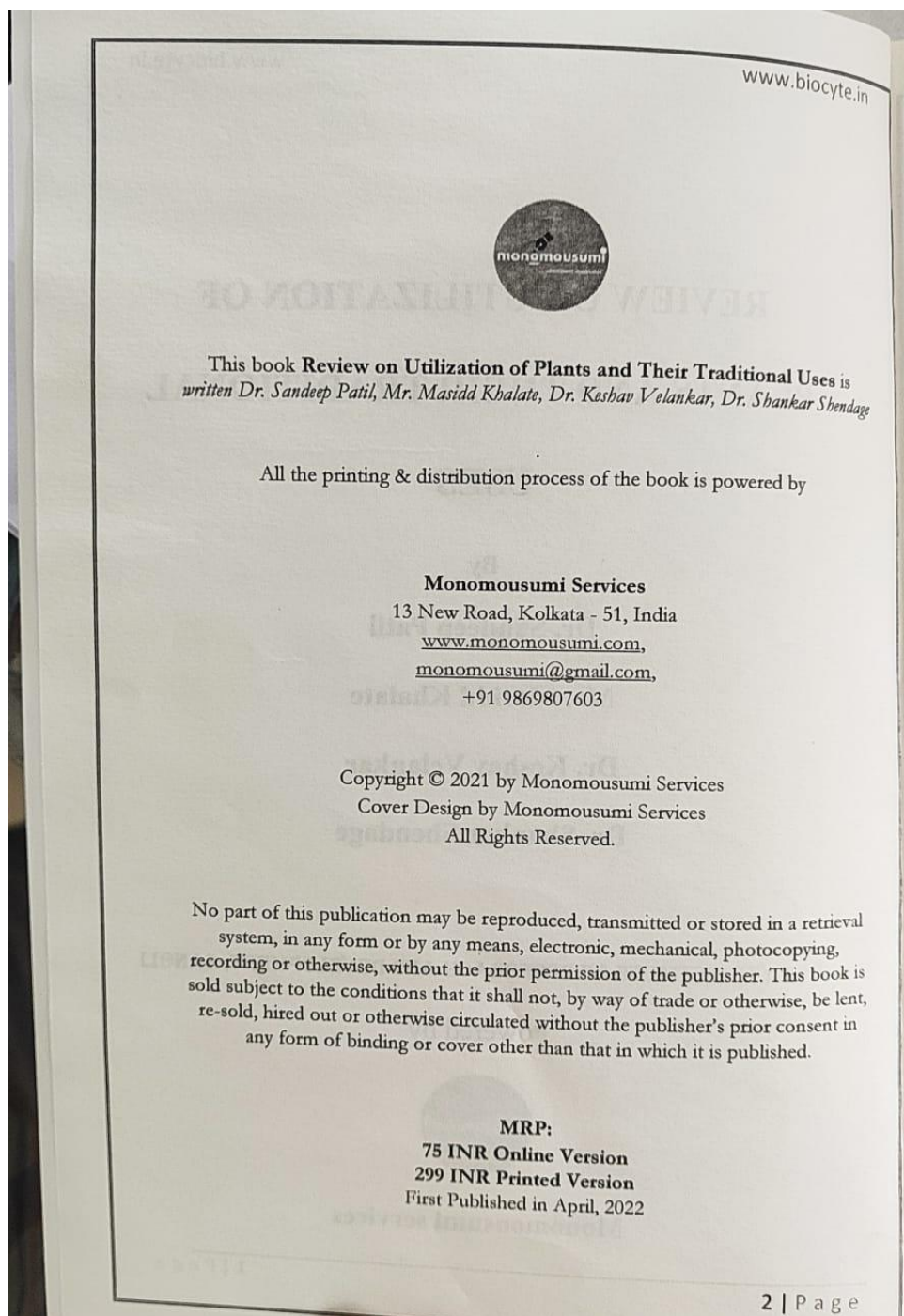


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**Dr. Keshav Velankar**
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Cosmetics and Aromatherapy)

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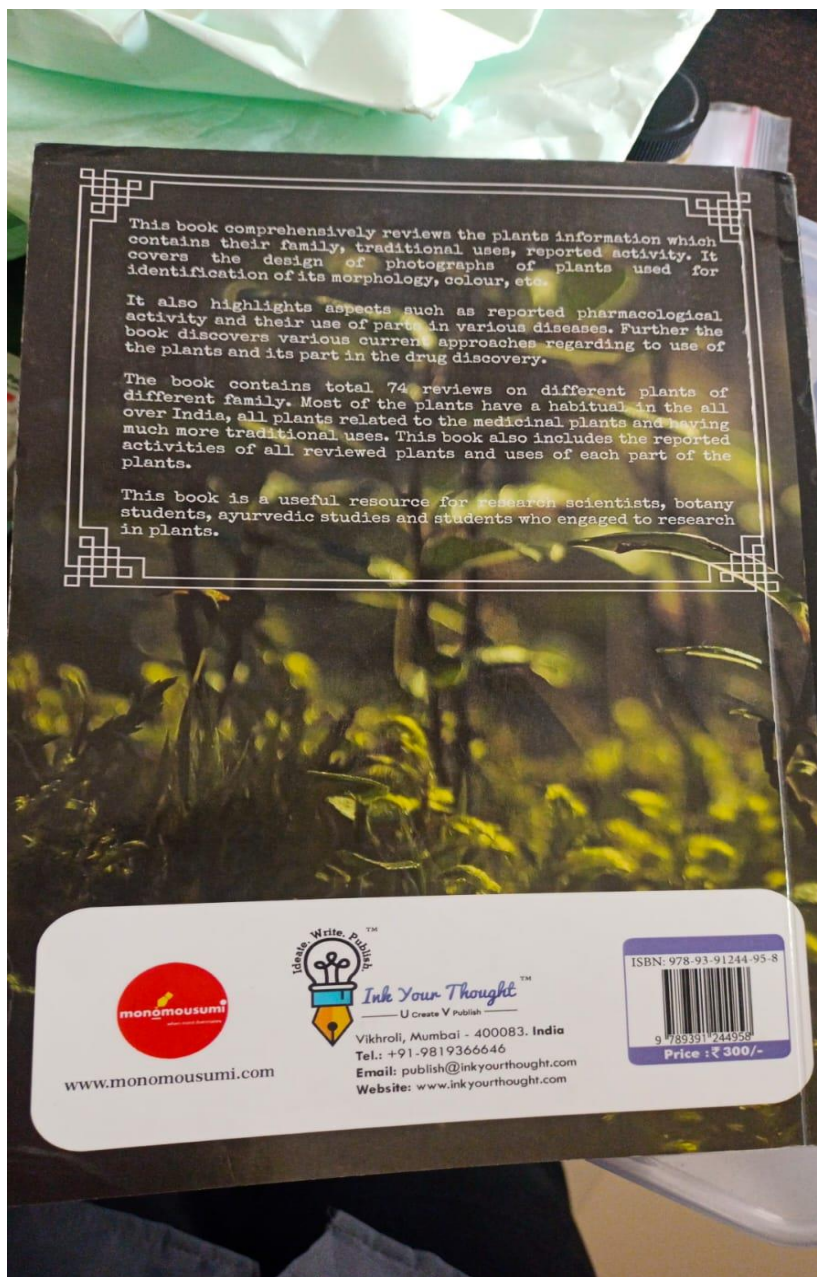


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3.3: Research Publication and Awards

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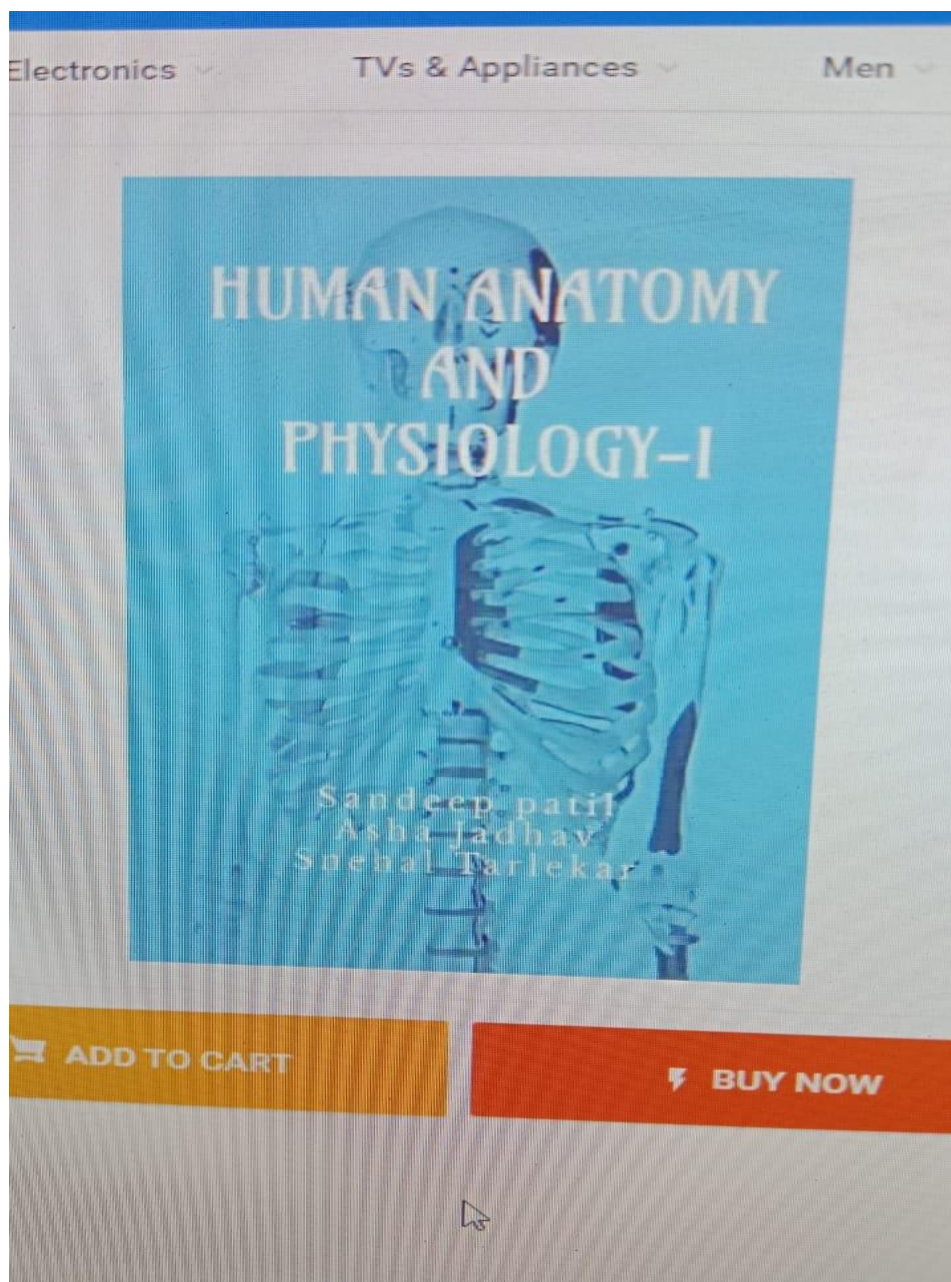


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CRITERION 3: Research, Innovations and Extension

3.3: Research Publication and Awards

Sr. No. 12

The screenshot displays the Flipkart product page for the book "HUMAN ANATOMY AND PHYSIOLOGY-I". The page includes the following elements:

- Product Title:** HUMAN ANATOMY AND PHYSIOLOGY-I
- Authors:** Sandeep Patil, Asha Jadhav, Sneha Tarlekar
- Highlights:**
 - Language: English
 - Binding: Paperback
 - Publisher: Notion Press
 - Genre: Education
 - ISBN: 9798886297591
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3.3: Research Publication and Awards

Sr. No.14

In the recent years, the interest in micron and submicron systems in pharmacy as surged. Micron system comes in range of μm and submicron in nm . Typically, colloid is an intermediates size between molecular range and coarse range. There has been a considerable research interest in the area of drug delivery using particulate systems. Particulate systems used as a physical approach to alter and improve the pharmacokinetic and pharmacodynamic properties of various types of drug molecules. Griseofulvin is an important agent in the treatment of dermatophytosis. Results of present work lead to a conclusion that reduced size of the drug particles with presence of the surfactants and polymers on the surface of griseofulvin microparticles are responsible for meteoric rise in solubility and dissolution velocity. Surfactants play an important role in the solubility of the drugs by increasing the wettability due to adsorption on the surfaces. Microparticles have been used as a physical approach to alter and improve the pharmacokinetic and pharmacodynamic properties of various types of drug molecules due to increased surface area by several times.



Pankaj Jadhav
Satwashila Kadam

I am currently working as an Assistant Professor at Annasaheb Dange College of B. Pharmacy, Ashta, Sangli. I have experience of undergraduate and postgraduate teacher in pharmacy for 10 years. There are 04 books and 20 papers in national and international reputed journals to my credit.

Enhancement of solubility and dissolution rate of Griseofulvin

Enhancement of solubility and dissolution rate of Griseofulvin using particulate drug delivery systems



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3.3: Research Publication and Awards

Sr. No.15


About the Book

According to ER 2020, Social Pharmacy course for First Year D.Pharm students is now compulsory. The satisfaction of fundamental human needs and improvement of everyone's quality of life are global goals. This book discusses a variety of national health programmes, and an understanding of contemporary challenges regarding healthcare development and issues, both, domestically and internationally. Experts have extensively edited and updated the text. All facets of health are presented in a straightforward and easily understandable way with copious illustrations. It integrates concepts from health psychology as well as social and behavioural science. Social pharmacy is a branch of social science that studies the intersection of healthcare and pharmacy.


About the Authors



Dr. Adhikrao V. Yadav is Ex-Principal of Gourishankar Institute of Pharmaceutical Education & Research, Limb, Satara. He has teaching experience of 35+ years. He has guided 45 postgraduate students and 06 Ph.D students. He has worked as consultant for many pharmaceutical industries. He is life member of ISTE, ISCP, Institution of Chemists (India), IHPA, IPA and APTI. He has published more than 100 research articles in various national and international peer reviewed journals, published 10 books and filed 3 patents. He has been honoured with Pharmaceutical Professional of 2009 by Indian Association of Pharmaceutical Scientists and Technologists, Kolkata, and Prof. S.B. Sonawane Memorial Award for article in Indian Journal of Pharmaceutical Education & Research.



Dr. Pankaj A. Jadhav is Assistant Professor at Dr. Shivajirao Kadam College of Pharmacy, Kasabe Digraj, Sangli, with 12 years of teaching experience. He has guided 5 postgraduate students. He has applied for 4 patents. He has authored eight books and published 23 research papers in national and international journals of repute. He is member of the MSPC and APTI.





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CRITERION 3: Research, Innovations and Extension

3.3: Research Publication and Awards

Sr. No.16

Petroleum ether (40-60°C), chloroform, ethyl acetate, methanol and aqueous extracts were subjected to evaluation of the antidiabetic activity. Diabetes was induced by alloxan monohydrate. The acute and chronic study included the measurement of blood glucose level at 0, 1, 3, 5, 7, 24 hr and 15th day after administration of extracts orally. Glibenclamide was used as a standard drug. The characterization of the extract was performed by a physicochemical and phytochemical investigation. Isolation and characterization were carried out on column chromatography along with different spectroscopic methods. Result: Among all the extracts, ethyl acetate and methanol extract showed a more significant reduction in blood glucose level and biochemical parameters such as total cholesterol, triglycerides, liver enzymes viz. SGOT, SGPT, ALP and urea level and also increases the serum insulin level in extract treated diabetic rats. Conclusion: The present study concluded that the *Bridelia retusa* Spreng. was found to be effective herb against alloxan induced diabetes and also in preventing the metabolic alteration induced as the consequence of diabetes.



Mr. Suhas S. Awati is pursuing PhD in Pharm. Science from SGVU, Jaipur. Presently he is working as an Assistant Professor at Dr. Shivajirao Kadam COP, Kasabe digraj, Maharashtra. He is having 11 years of teaching experience and published 14 research papers in national and international journals and 3 books on his credit.

Suhas Awati
Sunil Karale
Kiran Wadkar

Antidiabetic Potential of *Bridelia retusa* S. bark

Phytochemical Evaluation and antidiabetic screening
of *Bridelia retusa* S. bark



978-620-2-52716-3

Awati, Karale, Wadkar





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Sr. No.17

Orphan disease research has historically been highly fragmented by data type, by a research institution, and by disease. Individual efforts often have little interoperability and it can be almost impossible to connect the detailed clinical information held in one database with the genetic information held in another, or with information on whether a biomaterial sample or data from clinical research studies is available.

Linking up this data at the level of an individual patient enables researchers to gain a better overview of the disease they are studying without having to collect all the information again from scratch. Providing access to data by other researchers in a secure fashion with adequate data protection allows researchers in other institutions and studying other Orphan diseases to compare results and gain new insights.

By developing robust mechanisms and standards for linking and exploiting existing data and new data generated in related Orphan disease research projects, RD-Connect will develop a critical mass for harmonization and provide a strong impetus for a global "trial-ready" infrastructure.



Suhas Awati
Sujay Mali
Viraj Mahajan



S. S. Awati has completed B. Pharm from ABCP, Sangli and M. Pharm from KLES's COP, Belgaum, Karnataka, and pursuing a Ph.D. from Suresh Gyanvihar University, Jaipur, Rajasthan. Presently he is working as an Assistant Professor at Dr. Shivajirao Kadam College of Pharmacy, Kasabe digraj, He is having a total of 11 years of teaching experience.

Orphan Diseases and It's Treatment

a Review



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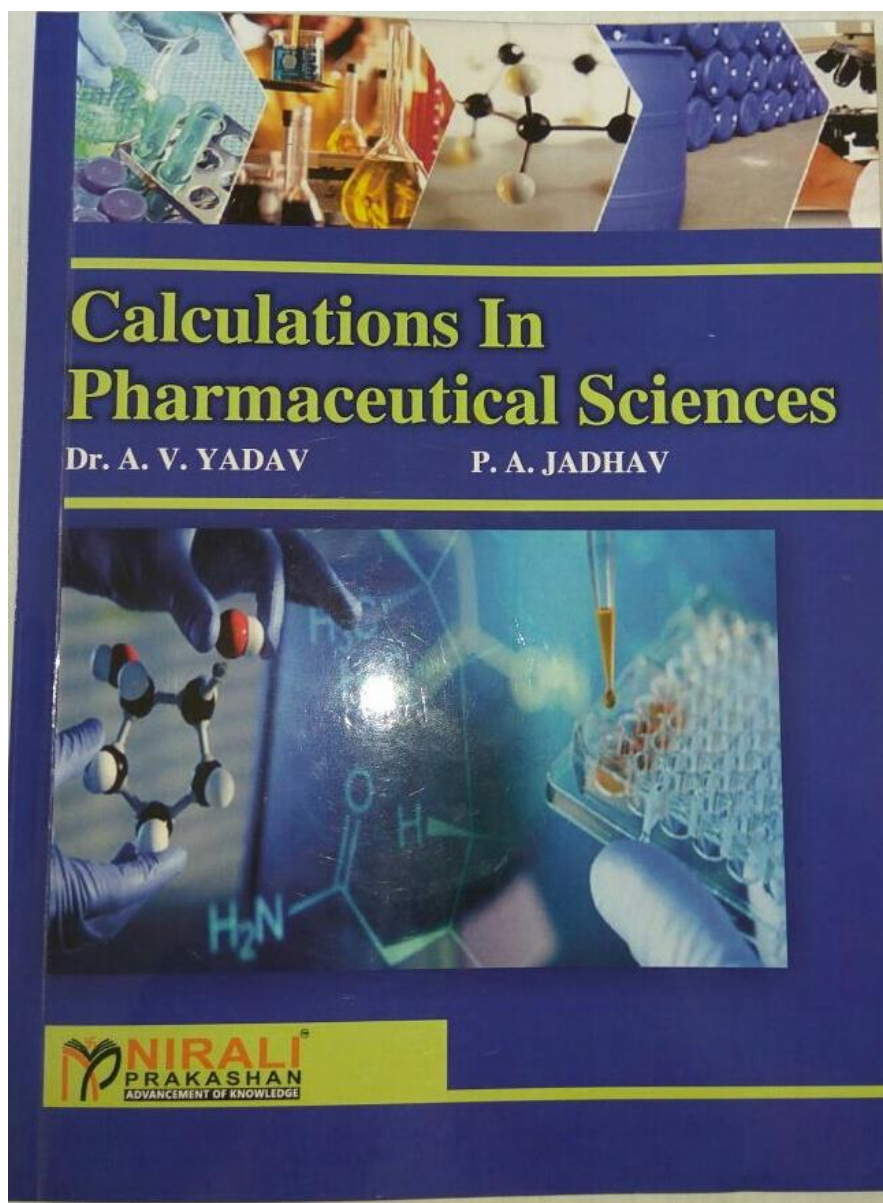


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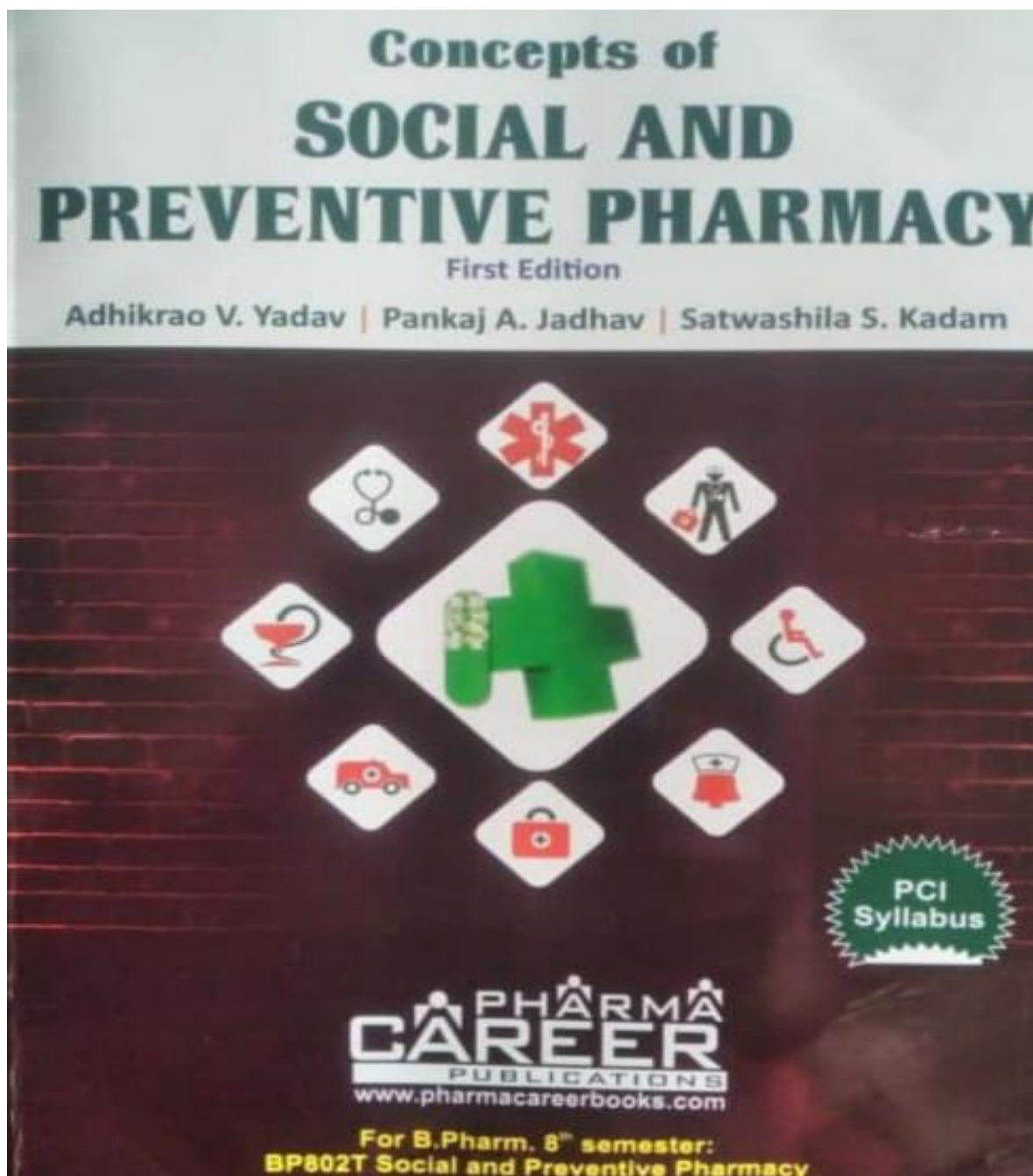


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Sr. No.19

About the Book

This book will be useful for degree students of pharmacy in understanding basic fundamental principles involved in social and preventive pharmacy. The book is useful to students and teachers as well.

The book has 7 chapters

1. Concept of health and disease,
2. Social and health education,
3. Sociology and health,
4. Hygiene and health,
5. Preventive medicine,
6. National health programs &
7. Community services in rural, urban and school health

All chapters cover different concepts and programs related to society and measures to prevent various diseases as per syllabus framed by **Pharmacy Council of India (PCI) for eighth semester of B. Pharm.** It is mainly focused on human health. Every individual should be responsible to promote good health in society.

About the Authors



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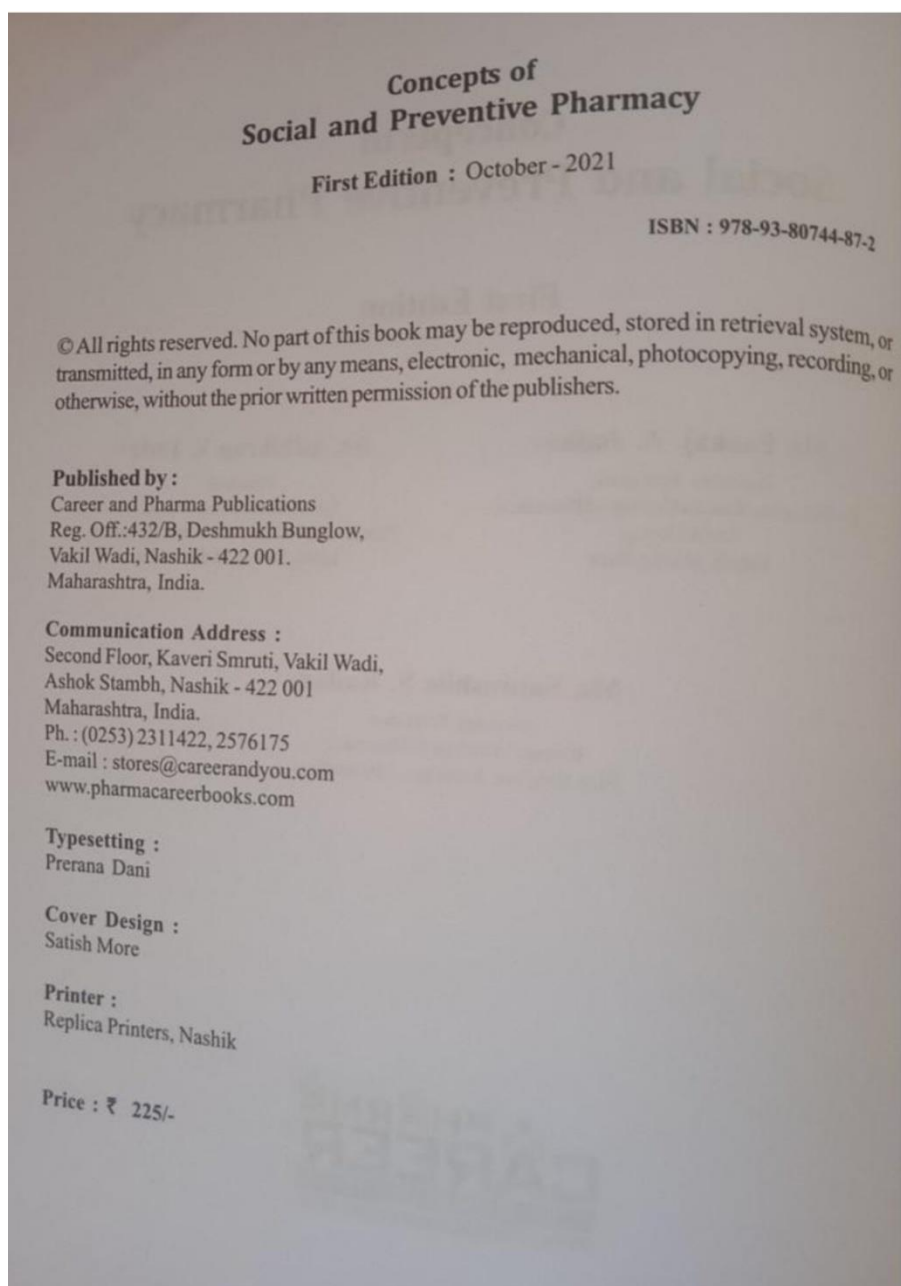


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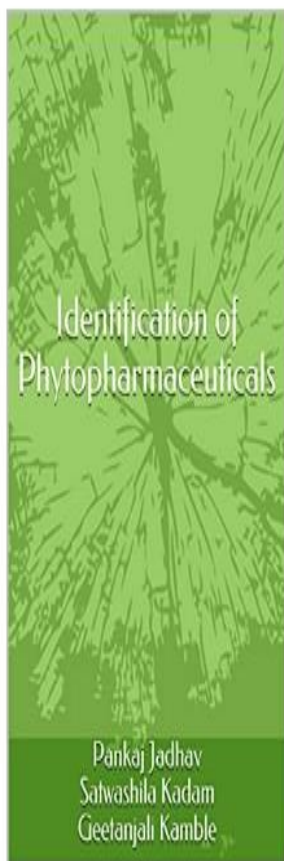
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फॉर्मेट : किंडल संस्करण

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The present work, which has been undertaken is bonafide, for the synthesis of Novel substituted 1, 3, 4-thiadiazole derivatives. In this view we have made an attempt in reviewing the literature on 1, 3, 4-thiadiazole derivatives for their medicinal significance with the help of chemical abstract, journals and internet sites. In the light of above, the synthesis of N-substituted-([5-(pyridin-4-yl)-1,3,4-thiadiazol-2-yl] sulfanyl) 2-acetamide/2-propanamide/3-propanamide derivatives were established using literature survey. Nine new molecules were synthesized, with the standard chemicals and procedures. The synthesized compounds were tested for their preliminary tests, physical constants and TLC. The structures of the final products were confirmed employing spectral analysis such as IR, ¹HNMR and Mass. The proposed compounds were screened for their anti-inflammatory activity with the standard drug. Compound 4b, 5a, 6c emerged as a potent anti inflammatory lead compounds.

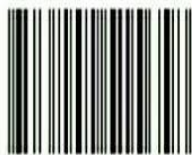


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Book Chapters Sr. No. 1

Effect of Medicinal Plants against Lung Cancer **12**

Suhas Suresh Awati, Gaurav Gupta, Sarita Rawat, Deepa Singh, Sachchidanand Pathak, Yogendra Singh, Santosh Kumar Singh, and Ritu M. Gilhotra 3
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Abstract 6

Lung cancer is a chronic disease and speaks to one of the greatest health care issues for mankind. It is an illness with a high morbidity and high demise rates. Subsequently, it is regularly connected with a plenty of affliction and general abatement in the quality of life. Just chemotherapy and radiation therapies are now and again effective and in much occasions harmful and deadly. Alternative and less toxic medicine is very considerably essential to this ailment. The goal of this study is to review the medicinal plants having antitumor activity for the management of lung cancer. Medicinal plants are presently standing out as likely wellsprings of anticancer specialists and are broadly utilized because of accessibility of the materials, generally modest, little, or no side effects, wide pertinence, and helpful adequacy which thus have quickened the scientific exploration. The study was directed with lung cancer cell line (Human), on humans and animals, and lung carcinoma (Lewis) was the maximum utilized exploratory model. In this review we have summarized some medicinal plants keep being an abundant wellspring of herbal remedies or bioactive composites against Lung cancer. 7
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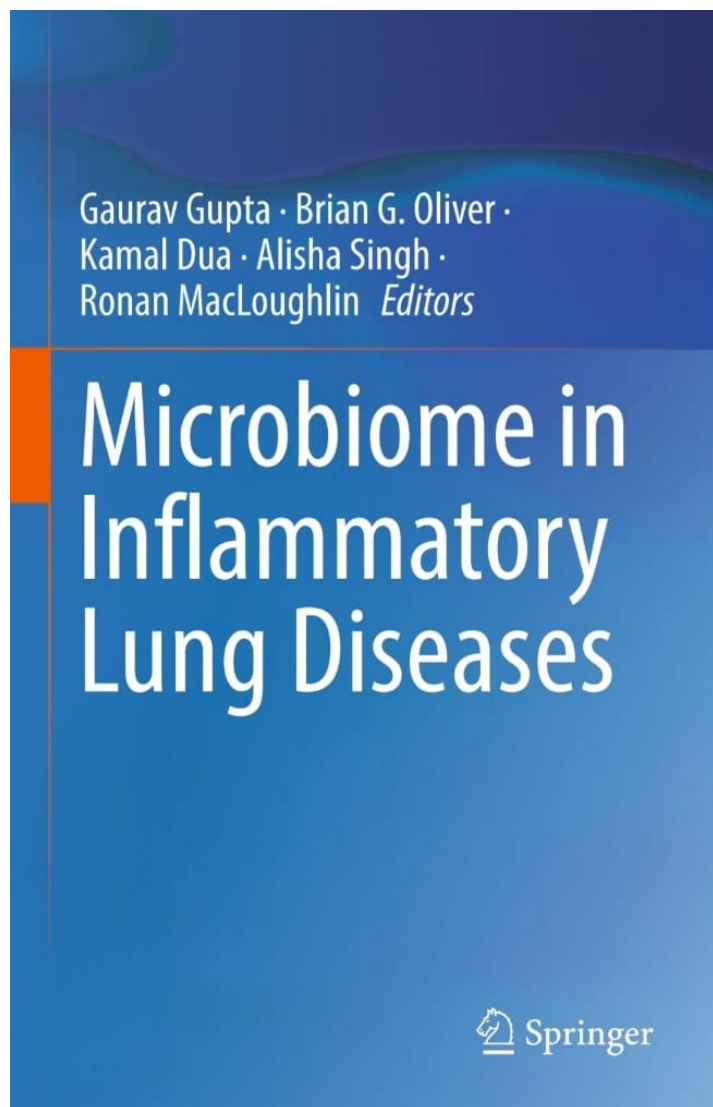


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Book Chapters Sr. No. 2



Microbiome in Influenza-A Virus Infection **16**

Suhas Suresh Awati, Santosh Kumar Singh, Abhay Raizaday, Pramod Kumar, Yogendra Singh, Mohammad Arshad Javed Shaikh, and Gaurav Gupta

Abstract

Influenza is an infective virus infection. The indications range from mild-to-severe and sometimes consist of pyrexia, coughing, runny-nose, muscle pain, headache, swelling in throat, and weakness. Influenza virus infection continues to be a major global health threat. Influenza-A virus may create pandemic flu, i.e., worldwide epidemic illness. Avoidance and treatment of influenza viral infection remain restricted, and alternative host protection policies are desperately required. The microbiomes play a vital position in immunomodulatory and in tissue homeostasis. The objective of current work is to emphasize the modern approaches into the regulatory function of microbiome in influenza-A viral infection and present a fresh fact of the connections and fundamental means of the bonding among the microbiome and management of influenza-A viral infection.

Keywords

Influenza-A · Microbiome · Viral infection · Flu · Microbiota

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Ocular Bioadhesive Drug Delivery Systems and Their Applications

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Abstract

Amongst various routes of drug delivery, ocular drug delivery has been one of the most interesting and challenging endeavors encountered by the pharmaceutical scientists for many years. As an isolated organ, the eye is very difficult to study from a drug delivery point of view. Despite these limitations, improvements have been made with the objective of maintaining the drug in the biophase for an extended period. In this chapter, we have summarized the different types of polymers used for ophthalmic formulations. The eye is the most sensitive body organ responsible for vision. So, it is important to carefully deliver the drugs through this route. Natural polymers are promising carriers of drugs due to their favorable properties and can be used to prolong the contact time. The major problem with the ocular disease treatments is to provide and maintain an adequate concentration at the site of action for a long time. The solutions show a very short residence time in the ocular region due to rapid clearance and nasolachrymal drainage. Different formulations have been prepared with polymers to overcome the problems associated with the ocular delivery.

Keywords: Eye, ocular drug delivery, natural polymers, bioadhesion, ocular bioavailability

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**Mucoadhesive Polymers for
Drug Delivery Systems**

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Abstract

Mucoadhesive polymer based drug delivery systems offer benefits such as prolonged residence time on the mucosal surface, rapid uptake/permeation of drugs through the mucosal membrane and enhanced bioavailability of the therapeutic agent. In the present chapter, principles, theories and various techniques for the assessment of mucoadhesive interactions at microscopic as well as macroscopic level have been discussed. Furthermore, the classification, categories and examples of different mucoadhesive polymers have been discussed, highlighting their advantages. Novel mucoadhesive polymers viz. lectins and lectin modified polymers, bacterial adhesions, amino acid sequences, thiomers, boronate containing polymers, and grafted polymers have also been discussed.

These polymers offer controlled drug release along with greater degree of target specificity and enhanced mucoadhesive strength of the formulations. Despite several advantages of these polymers in drug delivery systems, toxicity, stability and compatibility issues need to be addressed before full potential of these polymers is realized.

Keywords: Mucoadhesion, mucoadhesive polymers, drug targeting, site specificity

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Chapter 12

**Study of Flowers of Various Varieties of
Hibiscus rosa-sinensis L. as an Anti-Solar**

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ABSTRACT

This article evaluates UV absorption ability of flowers from various varieties of *Hibiscus rosa-sinensis* L. (Malvaceae) as an anti-solar agent. Extracts were prepared by maceration with a mixture of distilled water and ethanol (1 : 1). The method is performed by UV spectrophotometry in the range of 200 to 340 nm and results of all the extracts shows effective UV absorption in the given range.

Keywords: UV protective, Concord, Kingkalakaua, Lahina, China rose.