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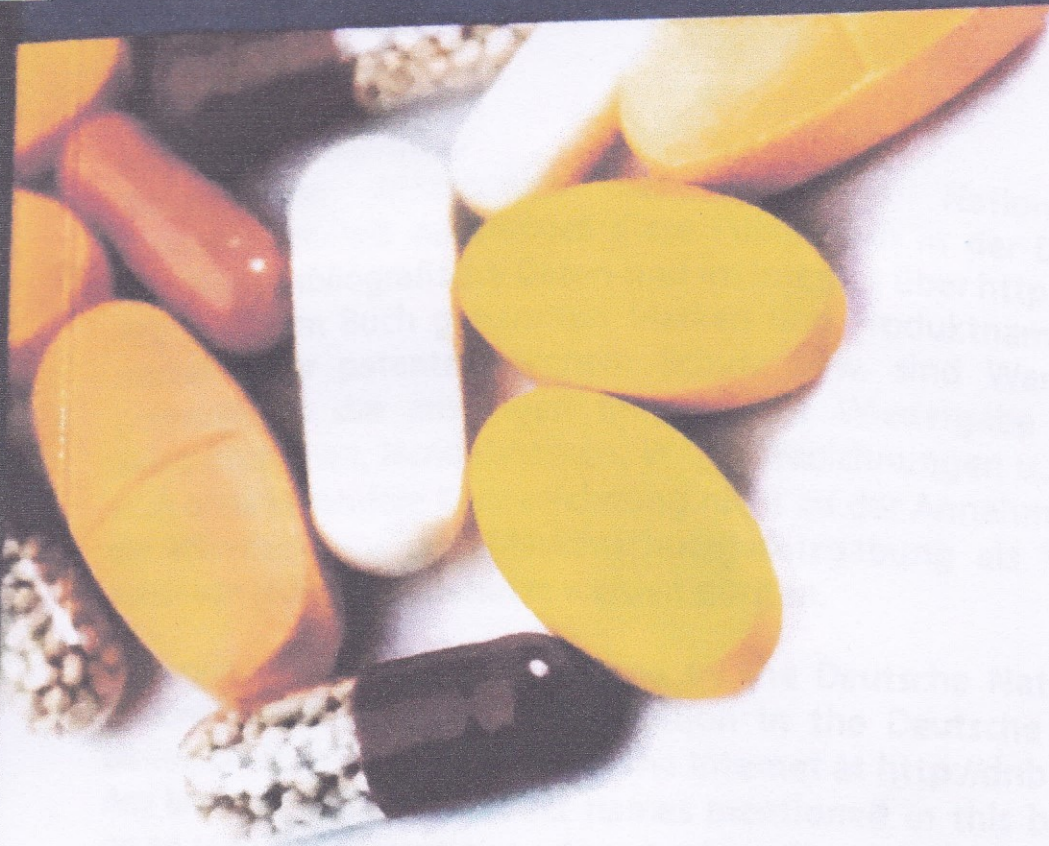
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3.3.3 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

S.N	Particulars	Page No
1.	Faculty Books published	01-16
2.	Paper in national/ international conference certificate	17-24



Mousumi Kar
Pratim Kumar Choudhury
Sujit Pillai

A Handbook on Microsphere Drug Delivery System for Antidiabetic Agents


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Borivli (W) (Kharjone) 401308



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
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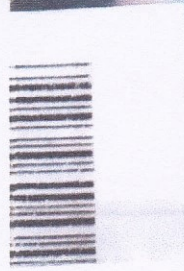

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As Per New
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Syllabus

Practical Medicinal Chemistry III

B. Pharm Series for Semester VIth

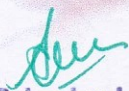


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Preface

"Education is the Manifestation of the perfection already in the man."

Swami Vivekanand

We are delighted to compose the prelude for "Practical Medicinal Chemistry-III". The book is meant for the students of Bachelor of Pharmacy. Though a host of books on Medicinal Chemistry practical are already available, yet most of them have been written in a non-syllabi way. They profess to provide a surplus synthesis of the medicinal agents but wants the coverage of the syllabus especially after the enforcement of revised regulations for the B. Pharm. degree program of the Pharmacy Council of India, New Delhi from the academic year 2016-17. The students of the B. Pharm. course are facing difficulty to find all the experiments in a single book after the implementation of revised syllabi. It is this fact that have goaded us to prepare a series of five books on Medicinal Chemistry.

The present book is the second of the series-"Practical Medicinal Chemistry-III". The aim of the book is the practical one: to provide a simple, understandable, comprehensive and informative guidance to the budding pharmacist so that they can perform their practical without any difficulty. The book include all the aspects about the experiments cover under the syllabus. Every experiment has been given a carefully detailed description: Principle, synthetic scheme, list of chemicals and glassware's required for the experiment, a simple and easy procedure and methods of characterization of the synthetic medicinal agent has been described. Explanation and instructions has been kept in a simple way. Emphasis has also been given to follow the Safe Laboratory Practice in Medicinal chemistry Lab. Precautions for each and every procedure has been detailed at the end of the experiment. Questionnaire for plausible viva-voce queries has also been arranged for every experiment.

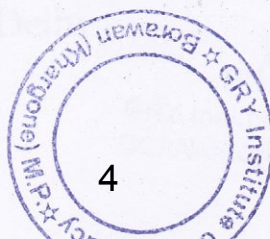
No task can be accomplished without the help and support from the well-wishers. We express indebtedness to our family members for all they have done. We owe gratitude for our Teachers who are our inspiration. The acknowledgement is also due to our friends for their constant support and continuous encouragement. We are also grateful to Prof. Shailendra Saraf, Vice-President, Pharmacy Council of India, & Vice-Chancellor, Durg University, Durg and Dr. Narendra Kumar Dhakad, our Honourable Vice-Chancellor, Devi Ahilya Vishwavidyalaya, Indore for their motivation and support. Feeling above is our in-

debtedness to the Almighty who bestowed wisdom in our every wish.

We would to thank our energetic, active, focussed, vigorous and dynamic Director Mr. Bhupender Singh along with support of our Marketing head Mr. Harjeet Singh, from Paging Publishers, for this quality based book and for their motivational and inspiring support & above all the almighty for immeasurable blessings in our path.

With pleasure, we place this series before the budding pharmacist, and we are hopeful that they shall find it convenient to use it for their practicals. We hope that the book provide an appropriate resource for the students to obtain the subject knowledge and to get outstanding grade in their examination. Constructive comments and productive suggestions from the learned teachers and scholars shall be gratefully entertained and given due consideration.


Principal,
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Dr. Love Kumar Soni
Dr. Gajanand Engla
Mr. Nitin Deshmukh

Practical Medicinal Chemistry-III

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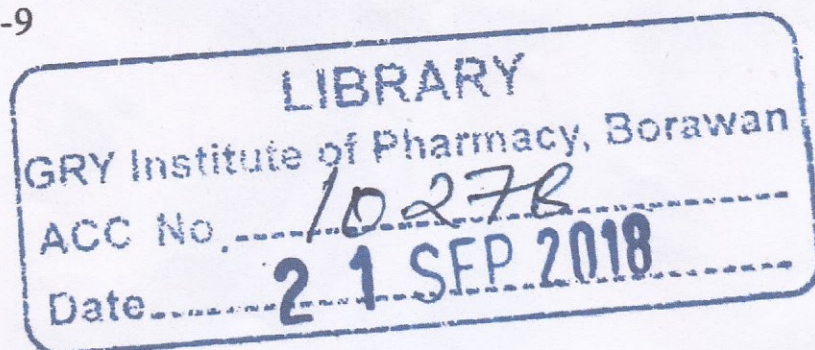
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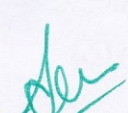
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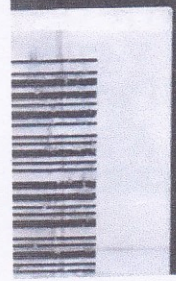
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Practical Medicinal Chemistry-I

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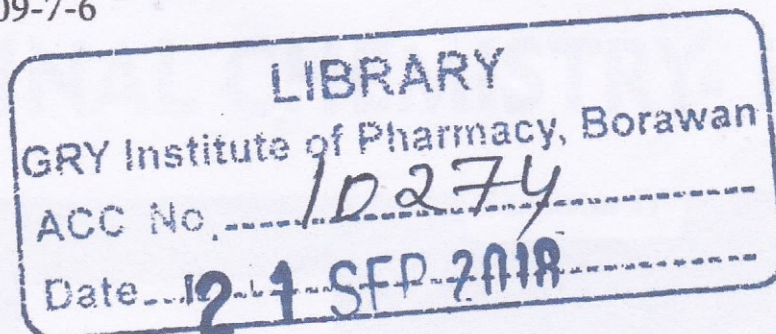
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Text Book of Medicinal Chemistry

Semester IV

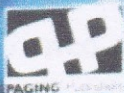
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Text Book
of
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For Bachelor of Pharmacy Course as per New PCI Syallbus
B. Pharm (Semester-IV)
Subject Code: BP 402T

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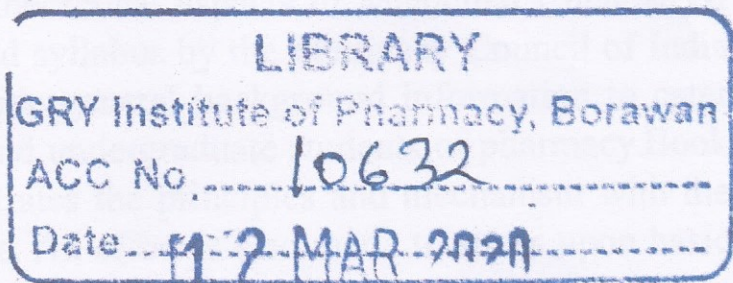
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Preface

“Learning gives creativity, Creativity leads to thinking,
Thinking provides knowledge, Knowledge makes you great”

—Dr. A.P.J. Abdul Kalam

Medicinal chemistry is defined as an interdependent mature science that is a combination of applied (medicine) and basic (chemistry) sciences. It encompasses the discovery, development, identification, and interpretation of the mode of action of biologically active compounds at the molecular level. Medicinal chemistry may be viewed as the melting pot of synthetic chemistry and molecular pharmacology that emphasizes the study of SAR of drug molecules; it therefore requires a clear understanding of both chemical and pharmacological principles. Medicinal chemistry continues to play a major role in drug research and development, taking advantage of newer techniques and increased knowledge of different branches of related sciences.

Medicinal chemistry discipline in pharmacy curriculum plays an important role in the construction of a specific knowledge of a pharmacist from other prescribers regarding pharmacotherapy. Pharmacy students must use medicinal chemistry concepts as one of the determinants of pharmacotherapy decisions, especially the SAR background of the involved drugs, to achieve a high-level practice on clinical pharmacy.


This book covers all the theoretical aspects of Medicinal Chemistry-I (BP-402T) as per the prescribed syllabus by the Pharmacy Council of India (PCI). Our intention is to provide general background information to cater to the needs of both diploma and undergraduate students of pharmacy. Book focuses on examples and illustrates the principles and mechanism with the liberal use of tables and figures. An effort is also made to stress upon basic pharmacology in detail, whenever needed. The variety of topics covered in this book will witness this fact.

The book is aimed at undergraduates who have a basic grounding in chemistry and are interested in a future career in the pharmaceutical industry. It attempts to convey the fascination of working in a field which overlaps the disciplines of chemistry, biochemistry, cell biology, and pharmacology.

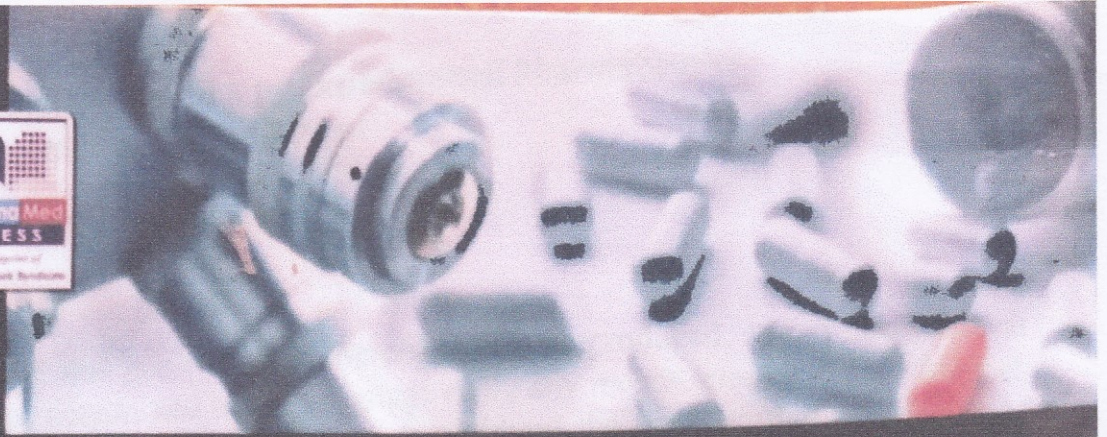
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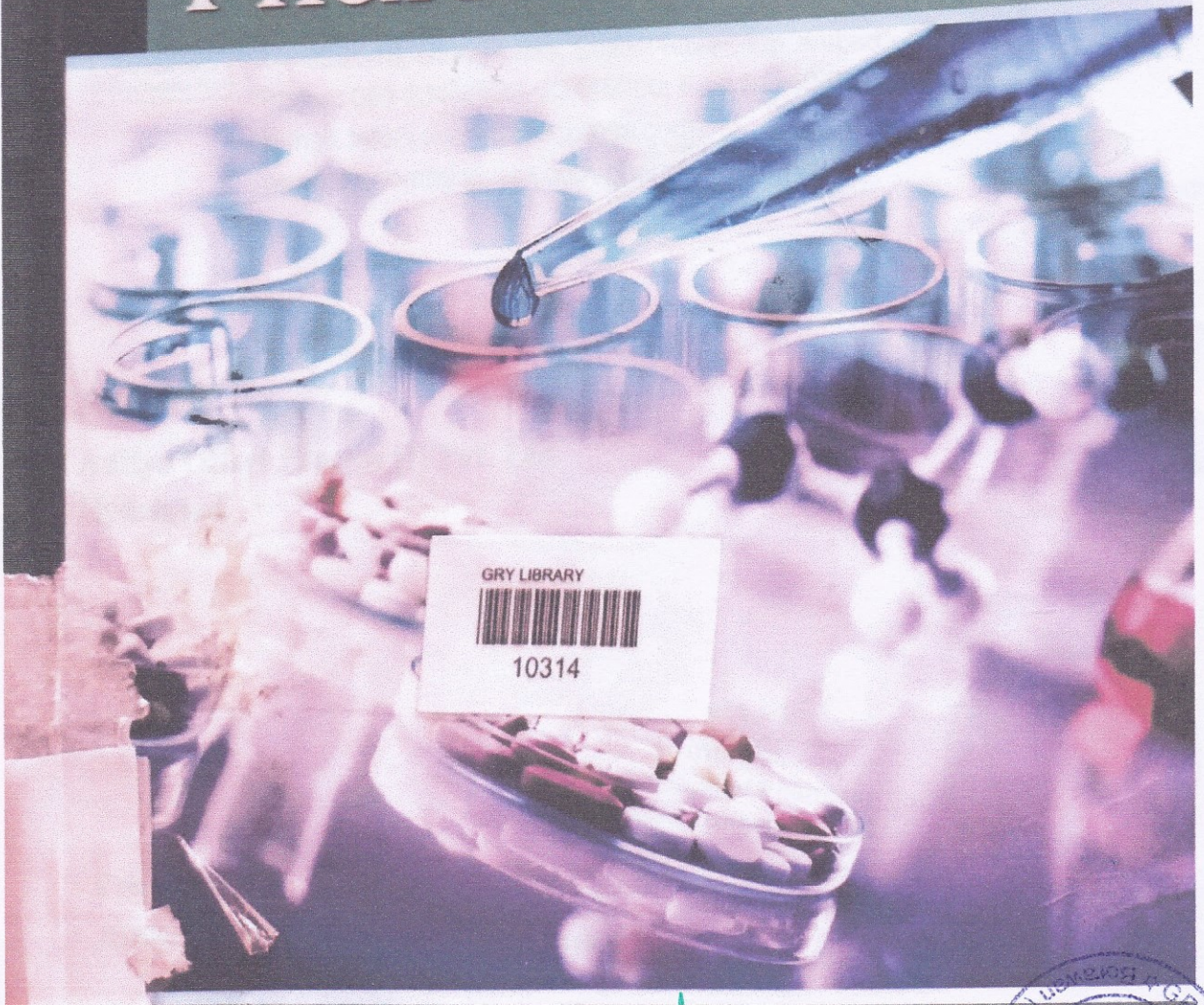

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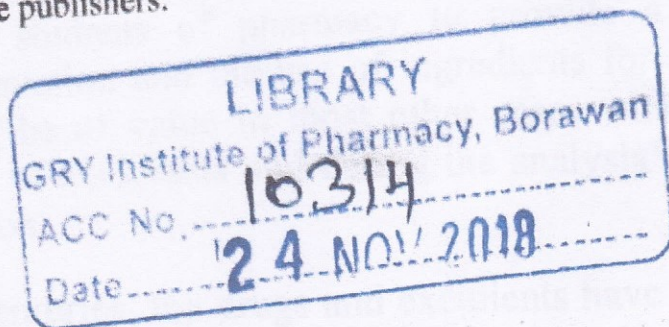
A Comprehensive Book on
**Experimental
Pharmaceutics**



A Comprehensive Book on Experimental Pharmaceutics
by Mousumi Kar and Sujit Pillai

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PREFACE


This book has been written keeping in view the undergraduate and post graduate students of pharmacy to provide a rapid reference towards experimentation and the use of ingredients for formulation. Nevertheless, it should be of value in most other cases where difficulties arise in the selection of excipients and during the analysis of the drug and formulated preparation.

For centuries, the drugs and excipients have been obtained from natural sources as inorganic minerals, plants and animals but their common name and general names have never been clear. This has been taken care in this book and a ready reference of commonly used excipients and their commercial available names have been mentioned.

Most of the universities that offer courses in pharmacy include introduction to the formulation science and analysis of drugs and dosage forms. Traditionally, a student knows about the formula but is usually not aware about the handling of equipments despite a change in the teaching approach.

This book will establish a ground work in pharmaceutical formulation of conventional and novel drug delivery systems, analysis of drugs and dosage forms and also in handling of equipments and instruments. An extensive coverage of practicals that are conducted along with inputs on technological aspects will make the material useful and appropriate for pharmacy students and researchers.

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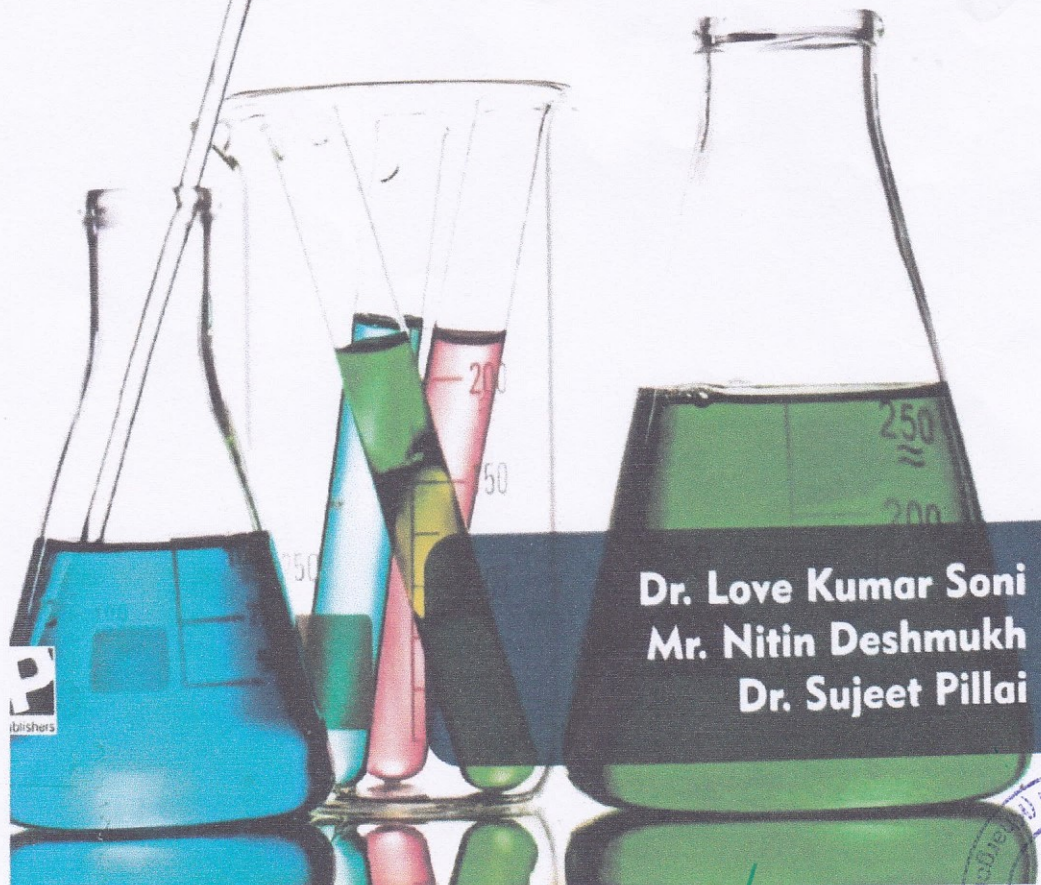
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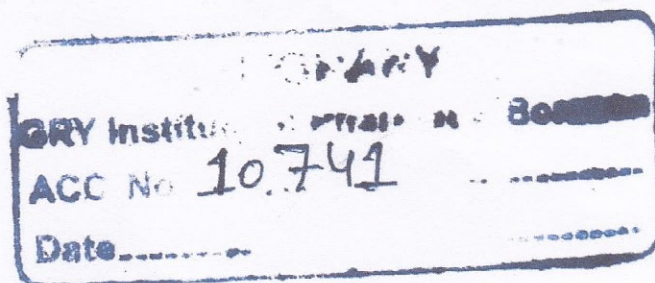
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About the Book

This book entitled 'A Textbook of Medicinal Chemistry III (BP601T)' attempts to provide a comprehensive study of various aspects in the field of Medicinal Chemistry. The first four units of the book covers the chemistry, mechanism of action, metabolism, adverse effects, Structure Activity Relationships (SAR), therapeutic uses and synthesis of anti-microbial drugs as prescribed by the Pharmacy Council of India (PCI). The fifth and the last unit emphasizes on modern techniques of rational drug design like Quantitative Structure Activity Relationship (QSAR), Prodrug concept, Combinatorial Chemistry and Computer Aided Drug Design (CADD). Each unit ends with multiple choice questions with answers, short answer questions and long answer questions as per the pattern of question paper prescribed by PCI. The authors are quite hopeful that the student and teacher community will be benefited by the contents of this book.

About the Authors



Dr. Love Kumar Soni Associate Professor at School of Pharmacy, Devi Ahilya University, Indore, (State Government Statutory University of Madhya Pradesh, Accredited by NAAC with Grade 'A+'). Dr. Soni is an outstanding academician with significant contribution in field of Pharmaceutical Education & Research. Dr. Soni is recipient of IDMA Best Paper Award 2003, Senior Research Fellowship 2006, International conference Best Paper award 2013, Certificate of Appreciation for Research and academic contribution in the year 2017 among University Associate Professors, Devi Ahilya University, Indore and Research Icon Award 2018. Two patent applications filed by his research group have been published. He has authored 11 books, 68 Research Papers and 5 review papers.



Dr. Tamanna Narsinghani is working as Associate Professor at School of Pharmacy, Devi Ahilya Vishwavidyalaya, Indore (State Government Statutory University of Madhya Pradesh, Accredited by NAAC with Grade 'A+'). Dr. Narsinghani has more than 17 years of teaching experience. She is M.Pharm. Gold Medalist and recipient of AICTE Junior Research Fellowship. She qualified GATE with 97.97 percentile and 69th All India Rank. She was awarded Certificate of Appreciation in 2017 for getting highest citations of research publications during 2012-2016 among University Readers. She has authored 3 books, 12 research papers and 3 review papers.



Mr. Nitin Deshmukh positioned as Assistant Professor in GRY Institute of Pharmacy, Borwan, Kharagone, MP. He completed his Master of Pharmacy in 2008 from GRY Institute of Pharmacy, Borwan, Kharagone and Bachelor of Pharmacy in 2005 from Pt. Ravji Shankar Shukla University Raipur CG. Currently he is research scholar in school of Pharmacy, DAVV Indore. He is active in the field of Pharmacy since 2005. He has authored 2 text book and 2 practical books of medicinal chemistry and more than 15 research articles in national and international journals.



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Textbook of Medicinal Chemistry III

Textbook of Medicinal Chemistry III

Semester VI



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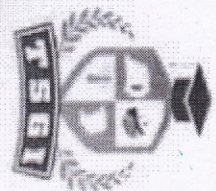
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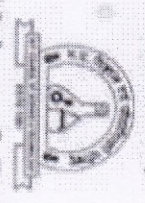


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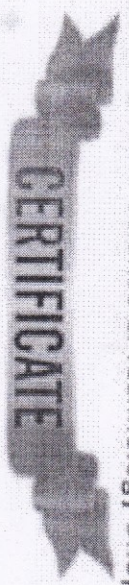


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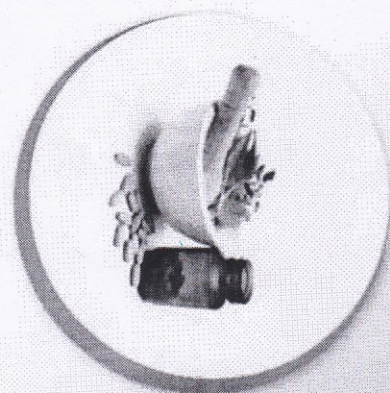
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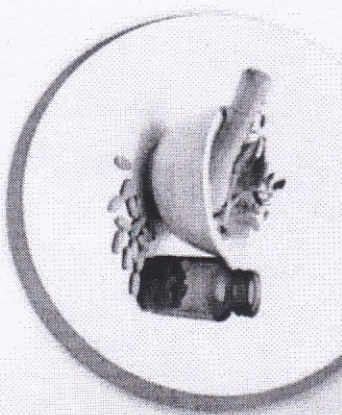
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24th March, 2018

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Mucbal Drug use as a Pharmaceutical
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Dr. Neelesh Malviya

Dr. Neelesh Malviya
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**Herbal Medicines as a Foundation for Drug Discovery: Present Status and
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PCOG-03	COMPARATIVE STUDY AND PHARMACOLOGICAL EVALUATION OF ANTIULCER ACTIVITY OF SOME POLYHERBAL FORMULATIONS	SACHIN KUMAR JAIN	IPS ACADEMY COLLEGE OF PHARMACY, INDORE, (M.P.)
PCOG-06	FORMULATION AND EVALUATION OF HERBAL NAIL POLISH CONTAINING HERBAL INGREDIENTS	SMRITI MALVIYA	COLLEGE OF PHARMACY, DR. A.P.J. ABDUL KALAM UNIVERSITY, INDORE, (M.P.)
PCOG-07	<i>IN VITRO</i> ANTIOXIDANT ACTIVITY COMPARISON AMONG FRENCH BEAN, GREEN BEAN, AND KIDNEY BEAN.	AMAN PARASHAR	SMRITI COLLEGE OF PHARMACEUTICAL EDUCATION, INDORE, (M.P.)
PCOG-08	ANTI-ANEMIC ACTIVITY OF HYDRO-ALCOHOLIC EXTRACT SEEDS OF SESAMUM INDICUM IN PHENYLHYDRAZINE-INDUCED ANEMIC RATS	CHANDRAKANT A KUSHWAH	MODERN INSTITUTE OF PHARMACEUTICAL SCIENCES, INDORE, (M.P.)
PCOG-09	<i>IN VITRO</i> CONTRACEPTIVE SPERMICIDAL ACTIVITY OF SAPONIN EXTRACT OF LEAVES OF CALOTROPIS PROCERA ON HUMAN SEMEN	RAGHVENDRA DUBEY	COLLEGE OF PHARMACY, DR. A.P.J. ABDUL KALAM UNIVERSITY, INDORE (M.P.)
PCOG-10	ANALGESIC ACTIVITY OF VARIOUS EXTRACT OF HIBISCUS SYRIACUS LINN ON RAT BY TAIL FLICK METHOD	R PUNASIYA	GRY INSTITUTE OF PHARMACY BORAWAN, KHARGONE, (M.P.)
PCOG-11	ANALGESIC ACTIVITY OF HYDRO ALCOHOLIC EXTRACT OF LYCIUM BARBARUM LEAVES	SIRVI SOMESHVER	MODERN INSTITUTE OF PHARMACEUTICAL SCIENCES, INDORE, (M.P.)
PCOG-12	COMPARATIVE PHYTOCHEMICAL SCREENING OF ANOGEISSUS LATIFOLIA (ROXB.) FOR THERAPEUTIC USES	VIKAS CHANDRA SHARMA	DEPARTMENT OF PHARMACEUTICAL SCIENCES, IFTM UNIVERSITY, MORADABAD (U. P.)
PCOG-13	FORMULATION OF HERBAL HAIR DYE AND EVALUATION OF IT'S COLOURING EFFECT	REENA SONI	DEPARTMENT OF PHARMACY, SHRI G.S. INSTITUTE OF TECHNOLOGY & SCIENCE, 23-PARK ROAD, INDORE, (M.P.)
PCOG-14	EXCISION WOUND HEALING ACTIVITY OF FRAGARIA ANANASSA EXTRACT IN ALBINO RATS	PRIYANSHU SHEKHAR	MODERN INSTITUTE OF PHARMACEUTICAL SCIENCES, INDORE, (M.P.)
PCOG-15	EXCISION WOUND HEALING ACTIVITY OF LANTANA CAMARA LINN FLOWER EXTRACT IN RATS	TEENA KUMAYU	MODERN INSTITUTE OF PHARMACEUTICAL SCIENCES, INDORE, (M.P.)


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PCOG-16	PHARMACOLOGICAL EFFICACY OF METHANOLIC EXTRACT OF PLANT BOMBAX CEIBA, AGAINST ISOPROTERENOL-INDUCED CARDIAC TOXICITY IN RATS	BIRLA R.	GRY INSTITUTE OF PHARMACY, BORAWAN, KHARGONE (M.P.)
PCOG-17	AN <i>IN VITRO</i> ANTI-INFLAMMATORY ACTIVITY OF METHANOLIC EXTRACT AND VARIOUS FRACTIONS OF CENTELLA ASIATICA LEAVES BY PROTEIN DENATURATION	SHIVANI SHARMA	DEPARTMENT OF QUALITY ASSURANCE & DEPARTMENT OF PHARMACOLOGY, MANDSAUR UNIVERSITY, MANDSAUR, (M.P.)
PCOG-18	PHARMACOLOGICAL EVALUATION OF THE PLANT MORINGA PTERYGOSPERMA, AGAINST CARBON TETRACHLORIDE-INDUCED HEPATOTOXICITY IN RATS	PRABHAT KUMAR DAS	GRY INSTITUTE OF PHARMACY, BORAWAN, KHARGONE, (M.P.)
PCOG-19	ALDOSE REDUCTASE INHIBITORY POTENTIAL OF AQUEOUS, METHANOLIC AND SAPONIN EXTRACT OF LEAVES OF ZIZIPHUS NUMMLARIA LINN.	KUSHAGRA DUBEY	SMRITI COLLEGE OF PHARMACEUTICAL EDUCATION, INDORE, (M.P.)
PCOG-20	ANTITUSSIVE ACTIVITY OF METHANOLIC EXTRACTS OF FICUS EXASPERATA	SWETA S KOKA	ACROPOLIS INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH, INDORE, (M.P.)
PCOG-21	ANTI HYPERPIGMENTATION EFFECT OF GLYCYRRHIZA GLABRA BY ANTITYROSINASE ACTIVITY	GUPTA RUCHI	SMRITI COLLEGE OF PHARMACEUTICAL EDUCATION, INDORE, (M.P.)
PCOG-22	WOUND HEALING ACTIVITY OF PRUNUS DOMESTICA IN EXPERIMENTALLY INDUCED DIABETIC RATS	SAPNA MALVIYA	MODERN INSTITUTE OF PHARMACEUTICAL SCIENCES, INDORE, (M.P.)
PCOG-23	PHYTOCHEMICAL AND ANTIOXIDANT ANALYSIS OF MALUS PUMILA (MALUS PUMILA PEEL)	DEEPA VARANDANI	PINNACLE BIOMEDICAL RESEARCH INSTITUTE, BHOPAL, (M.P.) DR. A.P.J. ABDUL KALAM UNIVERSITY, INDORE, (M.P.)
PCS-01	FORMULATION AND EVALUATION OF HERBAL SHAMPOO CONTAINING HIBISCUS LEAVES EXTRACT AND PIPER NIGRUM	PRATIK TIWARI	SMRITI COLLEGE OF PHARMACEUTICAL EDUCATION, INDORE (M.P.)
PCS-02	SOLUBILITY ENHANCEMENT OF VALSARTAN BY SOLID DISPERSION TECHNIQUE	HARSHVARDHAN CHOUHAN	SMRITI COLLEGE OF PHARMACEUTICAL EDUCATION, INDORE (M.P.)
PCS-03	FORMULATION AND EVALUATION OF FAST DISSOLVING TABLET OF VENLAFAXINE HYDROCHLORIDE USING COPROCESSED SUPERDISINTEGRANTS	VISHAKHA CHAUHAN	SMRITI COLLEGE OF PHARMACEUTICAL EDUCATION, INDORE, (M.P.)


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PCHEM-23	DEVELOPMENT AND VALIDATION OF STABILITY INDICATING ASSAY METHOD FOR ESTIMATION OF GEMIGLIPTIN AND ITS DE GRADIENTS BY RP-UHPLC	A. JAIN	SCHOOL OF PHARMACY, DAVV, INDORE, MP
PCOL-04	ANTIBIOTIC EVALUATION OF ODONTOGENIC MICROBIOLOGICAL SPECTRUM OF OROFACIAL INFECTION	NEHA VISHNOI	DEPARTMENT OF MICROBIOLOGY, PEOPLES DENTAL ACADEMY, BHANPUR, BHOPAL, (M.P.)
REW-01	THE TOPICAL DRUG DELIVERY OF ITRACONAZOLE MICROSPHERES BY SOLVENT EVAPORATION METHOD	ANKITA MANDAL	SMRITI COLLEGE OF PHARMACEUTICAL EDUCATION, INDORE (M.P.)
REW-02	MODE OF ACTION OF DIFFERENT TURMERIC DERIVED CURCUMIN AND CURCUMINOID FORMULATIONS ON THE NEURODEGENERATIVE DISORDER, ALZHEIMER'S.	ANJALI CHANDANI	VNS FACULTY OF PHARMACY, VNS GROUP OF INSTITUTES, NEELBADH, BHOPAL (M.P.)
REW-04	HERBAL DRUG USE AS A PHARMACEUTICAL BIOAVAILABILITY ENHANCER	RAKESH PUNASIYA	GRY INSTITUTE OF PHARMACY BORAWAN, KHARGONE, (M.P.)
REW-06	A REVIEW: ROLE OF NANOPARTICLE IN HERBAL FORMULATION	RUHEE JAIN	BM COLLEGE OF PHARMACEUTICAL EDUCATION & RESEARCH, INDORE, (M.P.)
REW-07	FORMULATION, DEVELOPMENT, AND EVALUATION OF NANOMIEMGEL FOR THE TREATMENT OF SKIN DISEASE: A REVIEW	SHIKHA JAISWAL	BM COLLEGE OF PHARMACEUTICAL EDUCATION & RESEARCH, INDORE, (M.P.)
REW-08	A REVIEW ON ANTIDEPRESSANT ACTIVITY OF BETA-CAROTENE	SHUCHI JAIN	BM COLLEGE OF PHARMACEUTICAL EDUCATION & RESEARCH, INDORE, (M.P.)
REW-09	IONTOPHORESIS FACILITATED OCULAR DRUG DELIVERY: A REVIEW ON RECENT ADVANCEMENT AND FUTURE PROSPECTIVE	SHWETA AWASTHY	SHRI G.S. INSTITUTE OF TECHNOLOGY & SCIENCE, 23-PARK ROAD, INDORE, (M.P.)
REW-10	COSMECEUTICALS: A NOVEL APPROACH IN SKIN CARE	ALISHA JAIN	RESEARCH SCHOLAR, MANDSAUR UNIVERSITY, REWAS DEWDA ROAD, MANDSAUR, (M.P.) DEPARTMENT OF PHARMACEUTICS, SMRITI COLLEGE OF PHARMACEUTICAL EDUCATION, INDORE, (M.P.)

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