## **Edited Book**

# Recent Advances In Pharmaceutical Sciences

(Volume 7)

# Dr. Dhanya B Sen and Dr. Neetesh K Jain

# **Publisher**



### Innovare Academic Sciences Pvt Ltd

T-8, Mahaveer Apartment, Near SIRT College, Ayodhya Bypass, Bhopal 462041, MP, India. **Phone:** +91 9425108574

Email: info@innovareacademics.in | https://innovareacademics.in/

1

Edited Book: Recent Advances in Pharmaceutical Sciences (Volume 7)

Publication Year: May. 2022

**MRP: INR 500** 

© Innovare Academic Sciences Pvt Ltd

ISBN: 978-81-952065-9-9

### Publisher and address:

Innovare Academic Sciences Pvt Ltd

T-8, Mahaveer Apartment, Near SIRT College, Ayodhya Bypass, Bhopal

462041, MP, India. Phone: +91 9425108574

Email: info@innovareacademics.in | https://innovareacademics.in/

**Printer:** Innovare Academic Sciences Pvt Ltd

### About the Book

Pharmaceutical sciences include broad range of multidisciplinary subject seeking to foster the integration of areas of knowledge that focus on all facet of drug and therapies. Pharmaceutical sciences ranges from identification and control of organism causing disease, design of drug, formulation, clinical trial, metabolism, quality control and audit of drugs, manufacturing, plant-based source of medicines, food sciences, public, to environmental health for improving the quality of human life.

The Chapter of the compiled edited book contains advanced knowledge and the updated research outcomes to update the readers. It touched on addressing the recent advancement of pharmaceutical sciences through the different approaches with the aim for the betterment of society and health of well-being. Additionally, its multidisciplinary nature in pharmaceutical sciences contributes valuably to other research areas like medical, biological, and chemical sciences.

The edited book aims to bring authors to one platform with the different subjects of Pharmaceutical sciences and share their knowledge for further research.

We hope that this book may interest a broad readership for upgrading and acquiring the latest information for the extension of the study.

Its continuous volume will come one by one to share more information and knowledge on recent advancements in pharmaceutical science.

# <u>Index</u>

Chapter No.	Title	Author(s)	Page No.
1.	BISPHOSPHONATE DRUG IBANDRONATE LOADED CHITOSAN NANOPARTICLES FOR EFFECTIVE MANAGEMENT OF OSTEOPOROSIS –DEVELOPMENT TO RELESE KINETIC STUDY	Sandhya Pathak, Archna Pandey	1-14
2.	OLEANOLIC ACID, A PROSPECTIVE PROTECTIVE AGENT AGAINST BRAIN ENERGY METABOLISM AND OXIDATIVE DYSFUNCTIONS FOLLOWING HEXAVALENT CHROMIUM EXPOSURE IN MICE	Sudipta Pal	15-44
3.	OBSTETRIC OUTCOME AFTER EMERGENCY CERVICAL CERCLAGE: A PROSPECTIVE OBSERVATIONAL STUDY PERFORMED IN CSI KALYANI HOSPITAL, CHENNAI	Shalini, Umachander Meena, R Malsri	45-51
4.	QUANTITATIVE ANALYSIS OF URSOLIC ACID IN THE LEAVES OF SPECIES OF GENUS TECOMA AND TABEBUIA OF BIGNONIACEAE FAMILY BY HIGH-PERFORMANCE THIN-LAYER CHROMATOGRAPHIC METHOD	Kalyani A. Kedar	52-63
5.	UTILITY OF PRAMANA IN AYURVEDA – A REVIEW	K. Manjula, V. Asokan	64-71
6.	MANAGEMENT OF COMPUTER VISION SYNDROME WITH SAINDHAVA JALA SEKA AND TRIPHALA GHRITAPANA – A CASE STUDY	Dr. Borkar Manasi R. Dr. Kotangale Sumedha Y., Dr. Kotangale Yogesh T.	72-78
7.	ETHNOMEDICINAL VALUE OF ANTIDIABETIC PLANTS	Sunand Katta, Narender Boggula, Himabindu Peddapalli, Swetha Naramreddy	79-96
8.	IMPORTANCE OF NANOCARRIERS AND PROBIOTICS IN THE TREATMENT OF ULCERATIVE COLITIS	Vandana Thakuri, Bhupendra Singhi, Ankita Sharmai, Nisha Kumarii, Inder Kumar, Kritika Verma, Arvind Kumar, Sushmita Rana	97-123
9.	AN ASSESSMENT ON FABRICATION AND PORTRAYAL OF NANOPARTICLES FOR PARENTERAL AND OPHTHALMIC ADMINISTRATION	Om M. Bagade, Priyanka E. Doke	124-152
10.	CONCEPT OF IONTOPHORESIS IN MIDDLE OF CONTROLLED DRUG DELIVERY AND ITS DEVELOPMENT	Om M. Bagade, Priyanka E. Doke	153-181
11.	LINUM USITATISSIMUM: AN INSIGHT INTO CURRENT RESEARCH ON THERAPEUTIC APPLICATION	Kinjal P. Patel, Ashim Kumar Sen, Dhanya B. Sen, Rajesh A. Maheshwari	182-208
12.	A REVIEW ON SMART DRUG DELIVERY SYSTEM	Alankar Shrivastava	209-219

Chapter No.	Title	Author(s)	Page No.
13.	ANTIVIRALS SHORTAGES AMIDST COVID-19 IN AFRICA: HOW AFRICA IS STRUGGLING	Sudhan Rackimuthu, Zohra Kazmi, Osman Kamal Osman Elmahi, Reem Hunain, Behram Khan Ghazi, Syed Zain Ali, Ana Carla dos Santos Costa, Shoaib Ahmad, Mohammad Yasir Essar	220-228
14.	FORMULATION AND CHARACTERIZATION OF SAQUINAVIR NANOPARTICLES PREPARED BY NANOPRECIPITATION METHOD	S.Sivaprasad, CH. Sadakvali.	229-242
15.	HERBAL REMEDIES FOR DIABETES NEPHROPATHY	Rajesh A. Maheshwari, Kinjal P. Patel, Ashim Kumar Sen, Ramachandran Balaraman, Dhanya B. Sen	243-253
16.	ANTIBACTERIAL AND HAEMOLYTIC ACTIVITY OF PHYTOCHEMICALS FROM FRESHWATER MICRO ALGA, <i>EUGLENA</i> <i>VIRIDIS</i> (EHREN)	Jyotirmayee Pradhan, Basanta Kumar Das	254-269
17.	FORMULATION AND EVALUATION OF PULSATILE DRUG DELIVERY SYSTEM FOR ANTI ASTHMATIC DRUG SALBUTAMOL	Vigneshwar M, Senthilnathan B, Muniyappan S, Masilamani K <sup>*</sup>	270-279
18.	HERBAL DRUGS FOR DIABETES MELLITUS	Dhanya B. Sen, Ashim Kumar Sen, Aarti S. Zanwar, Kinjal P. Patel, Rajesh A. Maheshwari	280-292
19.	THE MOST BENEFICIAL ADIPOKINE - ADIPONECTIN	Kinjal P. Patel, Ashim Kumar Sen, Ramachandran Balaraman, Dhanya B. Sen, Rajesh A. Maheshwari	293-308
20.	SIMULTANEOUS ASSESSMENT OF ALOGLIPTIN BENZOATE AND PIOGLITAZONE HYDROCHLORIDE IN TABLET DOSAGE FORM BY SIMULTANEOUS EQUATION AND ABSORBANCE RATIO METHODS	Ashim Kumar Sen, Dhanya B. Sen, Aarti S. Zanwar, Ramachandran Balaraman, Kinjal P. Patel, Rajesh A. Maheshwari	309-322
21.	TOXIC PLANTS: ALARM FOR HUMANS AND ANIMALS	Faruk Alam, Durgaprasad Kemisetti, Ashim Kumar Sen, Jithendar Reddy Mandhadi, Chandrashekar Talluri, Biplab Kumar Dey, Partha Pratim Dutta	323-359
22.	ADIPOCYTOKINES: A MIXED BAG IN THE DEVELOPMENT OF METABOLIC SYNDROME	Rajesh A. Maheshwari, Ramachandran Balaraman, Sarthak Mehta, Ashim Kumar Sen, Dhanya B. Sen	360-378

Chapter	Title	Author(s)	Page
No.			No.
23.	CHEMICALLY INDUCED ANIMAL MODELS AS	Aarti S. Zanwar, Dhanya	379-401
	TOOL IN CANCER RESEARCH	B. Sen¹, Rajesh A.	
		Maheshwari¹, Sachin B.	
		Zanwar <sup>2</sup> , Kirti V. Patel	
		Ashim Kumar Sen <sup>1</sup>	
24.	TRANSFERSOMES AND PROTRANSFERSOME:	Sunil Kardani, Ashim	402-417
	BETTER VESICULAR FORMULATION DOSAGE	Kumar Sen, Dhanya B.	
	FORM	Sen, Rajesh A.	
		Maheshwari	
25.	ANTI-HYPERLIPIDEMIC ACTIVITY OF HERBAL	Rajesh A. Maheshwari,	418-436
	REMEDIES AS ALTERNATIVE THERAPY	Ashim Kumar Sen, Sunil	
		Kardani, Ramachandran	
		Balaraman, Aarti Zanwar,	
		Dhanya B. Sen	
26.	COVID-19 AND ASSOCIATED ORAL LESIONS	Banerjee Abhishek, MDS,	437-459
		Das Moumalini, BDS,	
		Abhinandan, MDS, Vivek	
		Kumar, MDS, Bidyut	
		Chakraborty, MDS, Dutta	
		Abhijit, MDS, Banerjee	
		Kalyan, MDS, Patel	
		Parixeet, MDS	