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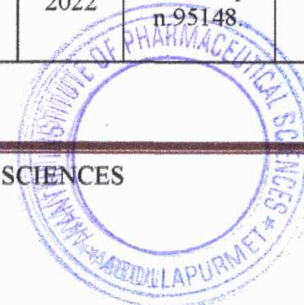


3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per

Teacher during the year

2022-2023

Sl. no	Name of the teacher	Title of the book/ chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International	Year of publication	ISBN/ISSN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher	Page No
1	Thatikayala Mahender	Ayurvedic Remedies For The Kidney Diseases	Ayurvedic Remedies For Kidney Stones	-	-	National	2022	978-81-956220-1-6	Avanthi Institute Of Pharmaceutical Sciences	Published by Academic Decipher Press, Mumbai	5
2	Thatikayala Mahender	Ayurvedic Remedies For Jaundice	Ayurvedic Remedies For Jaundice	-	-	National	2022	978-81-958127-0-7	Avanthi Institute Of Pharmaceutical Sciences	Published by Academic Decipher Press, Mumbai	11
3	Thatikayala Mahender	Benzimidazole : Pharmacological, Profile	Benzimidazole: Pharmacological, Profile	-	-	International	2022	doi:10.5772/intechopen.95148	Avanthi Institute Of Pharmaceutical Sciences	Published by IntechOpen	17





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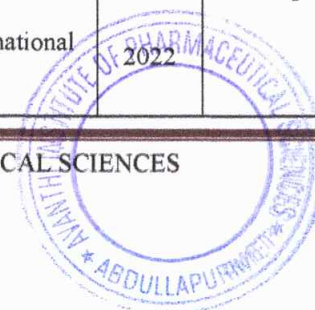
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4	Dr. K. Balaji	-	-	72 –Indian pharmaceutical congress Nagpur	72 –Indian pharmaceutical congress Nagpur	International	2023	-	Avanthi Institute Of Pharmaceutical Sciences	-	22
5	P V. Pavan kumar	-	Formulation and characterization of phospholipids of mangiferin	One day international conference on new horizons in pharmaceutical, biomedical and biosciences	One day international conference on new horizons in pharmaceutical, biomedical and biosciences	International	2023	-	Avanthi Institute Of Pharmaceutical Sciences	-	23
6	S.Koti Reddy	-	The quality of services in pharmacy	National conference on pharmacy and pharmaceutical sciences	National conference on pharmacy and pharmaceutical sciences	national	2022	-	Avanthi Institute Of Pharmaceutical Sciences	-	24

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7	Dr. Nihar Ranjan Das	-	Drug Resistance decrease by home medicine	National conference on pharmacy and pharmaceutical sciences	National conference on pharmacy and pharmaceutical sciences	National	2022	-	Avanthi Institute Of Pharmaceutical Sciences	-	25
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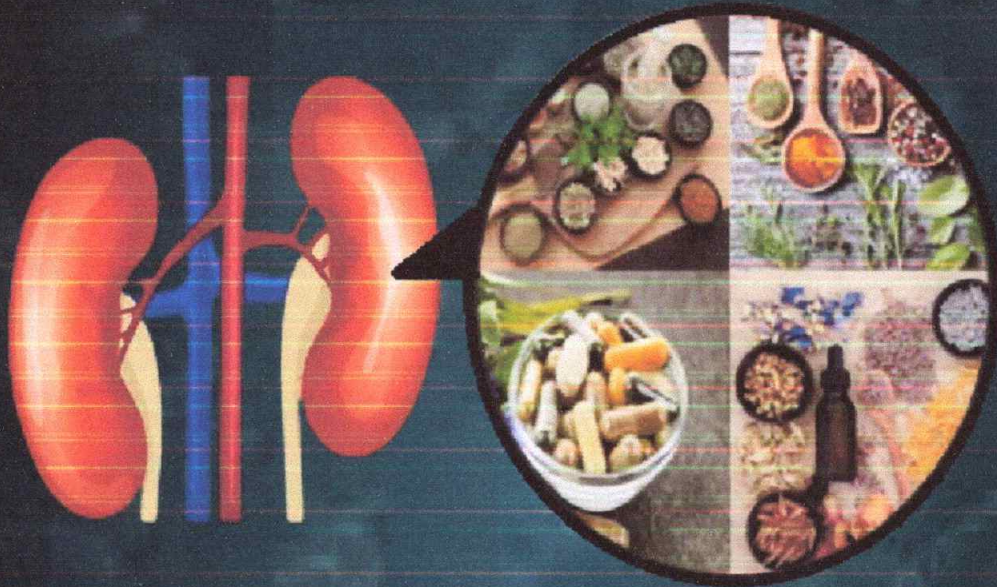


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10	P Lavanya	-	Formulation and evaluation of colon specific sulfasalazine loaded microspheres	International conference on Pharma summit 2022: drug discovery and community trial	International conference on Pharma submit 2022: drug discovery and community trial	International	2022	-	Avanthi Institute Of Pharmaceutical Sciences	-	28
11	A. Sruthi	-	Camera in a pill	National conference on pharmacy and pharmaceutical sciences	National conference on pharmacy and pharmaceutical sciences	national	2022	-	Avanthi Institute Of Pharmaceutical Sciences	-	29




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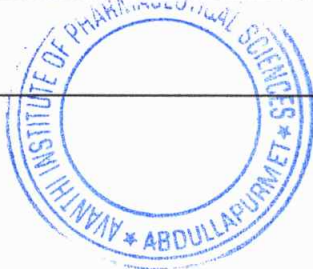
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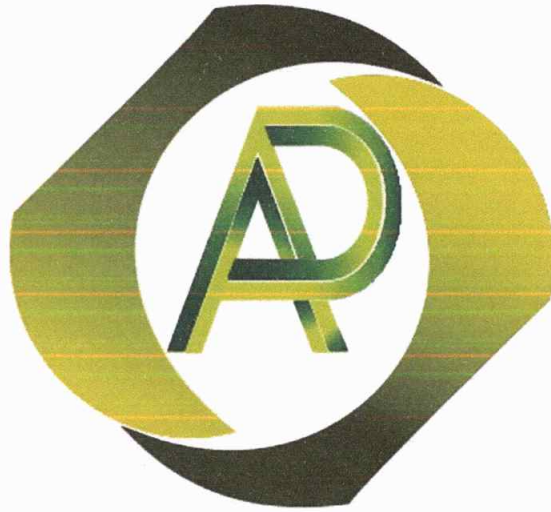
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**AYURVEDIC REMEDIES FOR THE
KIDNEY DISEASES**



**ACADEMIC DECIPHER PRESS,
MUMBAI**

PRICE: RS.550/-

ISBN: 978-81-956220-1-6

FIRST EDITION: SEP 2022



A handwritten signature in blue ink, appearing to be 'Dr. Abdulapurmet', written over a horizontal line.

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Published by
Academic Decipher Press, Mumbai
Website: <https://academicdecipher.in/>
WhatsApp No.: 7400253569
Email: admin@academicdecipher.in,
academicdecipher.in@gmail.com

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Edition: Sep 2022


Price: Rs.550/-

ISBN: 978-81-956220-1-6

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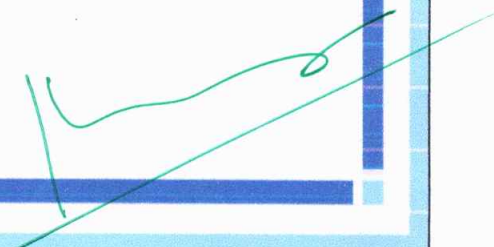
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PREFACE

This book is a result of extensive literature survey done by students of pharmacy, and other science fraternity from different colleges all over India. The information in this book is not intended to be a substitute for professional medical advice. Do not use this information to diagnose any disease, also the book should not be used for ayurvedic treatment of any disease. However, the book is published to serve as a guide for people wishing to do research on our indigenous plants which can be used in the treatment of various diseases of kidney.

We are thankful to all the contributors as without their help publishing this book would have not been possible. We wish all our readers knowledgeable and research-oriented reading.




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AYURVEDIC REMEDIES FOR THE LIVER DISEASES



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MR. OMKAR BHARAT TIPUGADE

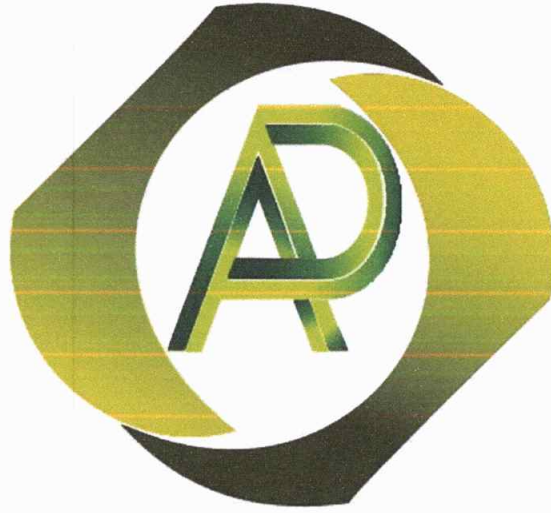
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**ACADEMIC DECIPHER PRESS,
MUMBAI**

PRICE: RS.550/-

ISBN: 978-81-958127-0-7

FIRST EDITION: SEP 2022



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Avanti Institute of Pharmaceutical Sciences
Guntur Road, Hayath Nagar
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AYURVEDIC REMEDIES FOR THE LIVER DISEASES

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Published by
Academic Decipher Press, Mumbai
Website: <https://academicdecipher.in/>
WhatsApp No.: 7400253569
Email: admin@academicdecipher.in,
academicdecipher.in@gmail.com

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Edition: Sep 2022

Price: Rs.550/-

ISBN: 978-81-958127-0-7

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PREFACE

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We are thankful to all the contributors as without their help publishing this book would have not been possible. We wish all our readers knowledgeable and research-oriented reading.




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Chapter

Benzimidazole: Pharmacological Profile

*Mahender Thatikayala, Anil Kumar Garige
and Hemalatha Gadegoni*

Abstract

Benzimidazole is a bicyclic heterocyclic aromatic compound in which benzene fused to imidazole moiety. Benzimidazole holds a vital role in the field of medicinal chemistry which possesses wide variety of pharmacological activities like antibacterial, anti cancer, antifungal, antileishmanial, anti tubercular, anti viral and anti malarial respectively, hence the benzimidazole moiety attracting the medicinal chemist to synthesize the different benzimidazole derivatives with wide variety of pharmacological activities. The book chapter mainly discussed the anti cancer, anti HIV, antileishmanial and anti tubercular activities of recently synthesized benzimidazole derivatives.

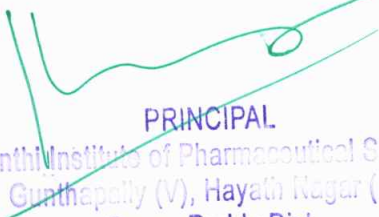
Keywords: benzimidazole, anti cancer, anti HIV, antileishmanial, anti tubercular

1. Introduction

Benzimidazole is bicyclic heterocyclic aromatic compound in which benzene ring fused to 4 and 5 position of imidazole ring, it contain two nitrogen atoms at 1 and 3 position exhibit both acidic and basic nature called amphoteric nature and exists in two equivalent tautomeric forms, when the hydrogen present at first position nitrogen atom possess acidic nature, when the hydrogen present at third position nitrogen atom possess basic nature (**Figures 1**) [1]. Benzimidazole is a very important pharmacophore among all the heterocyclic compounds due to its important pharmacological activities like anti-Alzheimer [2], antibacterial [3], anti cancer [4], anti-diabetic [5], antifungal [6], anti HIV [7], anti leishmanial [8], anti inflammatory [9], analgesic [9], anti malarial [10], anti microbial [11] and anti tubercular [12] activity, there are many benzimidazole derivatives are using to treat many diseases, few presently marketing drugs contain benzimidazole moiety are the bezitramide using as an analgesic, ridinilazole sing as antibacterial, the candesartan, mibefradil using as anti-hypertensive drugs, mebendazole, albendazole, thiabendazole, and flubendazole usng as antihelmintics, astemizole, bilastine using as antihistamines, pantoprazole, lansoprazole, esomeprazole, ilaprazole using as proton pump inhibitors, bendamustine, selumetinib, galeterone, pracinostat using as antitumor agents and enviradine, samatasvir, and maribavir using as antiviral agents (**Figures 2**) [13–17].

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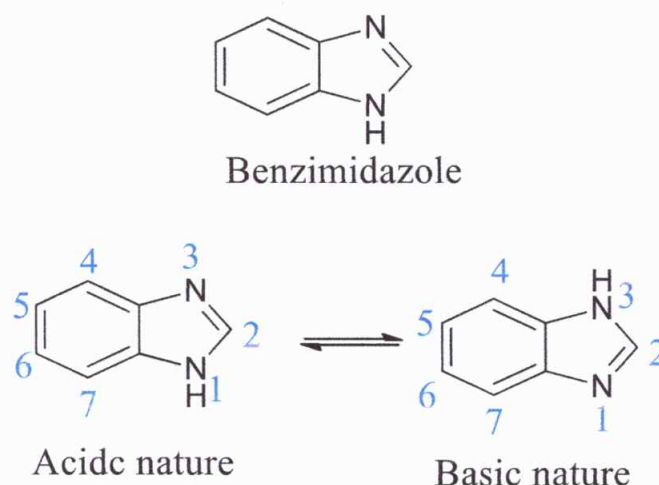


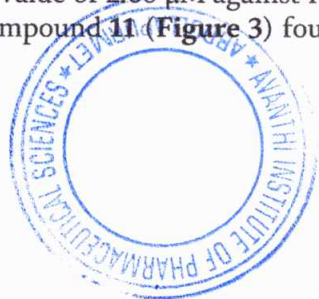
Figure 1.
Chemistry of benzimidazole [1].

2. Pharmacological profile of benzimidazole derivatives

2.1 Anti cancer activity

In the year of 2019 Tahlan et al., reported the synthesis and anti cancer activity of the new benzimidazole derivatives, among all the derivatives the compound **1** (Figure 3) found to be best activity at IC_{50} value of $4.53 \mu\text{M}$ against the human colorectal cancer cell line [4], same authors in 2018 reported the compound **2** (Figure 3) showed best activity at IC_{50} value of $4.12 \mu\text{M}$ against the human colorectal carcinoma cell line (HCT116) [18], same year few authors reported the synthesis, anti anti cancer activity of the new benzimidazole derivatives, Aikman et al., reported the compound **3** (Figure 3) found to be best active compound at EC_{50} value of $5 \pm 2 \mu\text{M}$ against the melanoma (A375) cells [19], Mohamed et al., reported the compound **4** (Figure 3) showed best activity at IC_{50} value of 80,35, 72 $\mu\text{g/ml}$ against the against human breast adenocarcinoma (MCF-7), human lung carcinoma (A549), human epitheloid cervix carcinoma (HELA) [20], Gohary et al., reported the compound **5** (Figure 3) showed significant activity at IC_{50} value of 0.022, 0.014, 0.015 μM against the against liver cancer (HepG2), colon cancer (HCT-116), breast cancer (MCF-7) cells [21], in 2017 Wang et al., reported the synthesis, anti-cancer activity of the chrysin benzimidazole derivatives, the compound **6** (Figure 3) showed significant activity at IC_{50} values of $25.72 \pm 3.95 \mu\text{M}$ against MFC cells [22] and Yadav et al., reported the anti cancer activity of synthesized the 2-(1*H*-benzo[d]imidazol-2-ylthio)acetamido)-*N*-(substituted-4-oxothiazolidin-3-yl)acetamides, the compound **7**, **8** (Figure 3) showed significant activity at IC_{50} value of 0.00005, 0.00012 $\mu\text{M/ml}$ against HCT116 cell line [23], Onnis et al., reported the anti cancer activity of benzimidazolehydrazones, the compound **9** (Figure 3) showed excellent activity at IC_{50} value of $0.98 \pm 0.02 \mu\text{M}$ against human T-lymphoblastic leukemia (CEM) cells [24].

In 2015 few authors worked on synthesis of benzimidazole and evaluated the anti-cancer activity, the Gao et al., reported the compound **10** (Figure 3) showed good activity at IC_{50} value of $2.68 \mu\text{M}$ against K562 and HepG-2 cells [25], Kamal et al., reported the compound **11** (Figure 3) found to be best at IC_{50} value of $1.8 \mu\text{M}$ against



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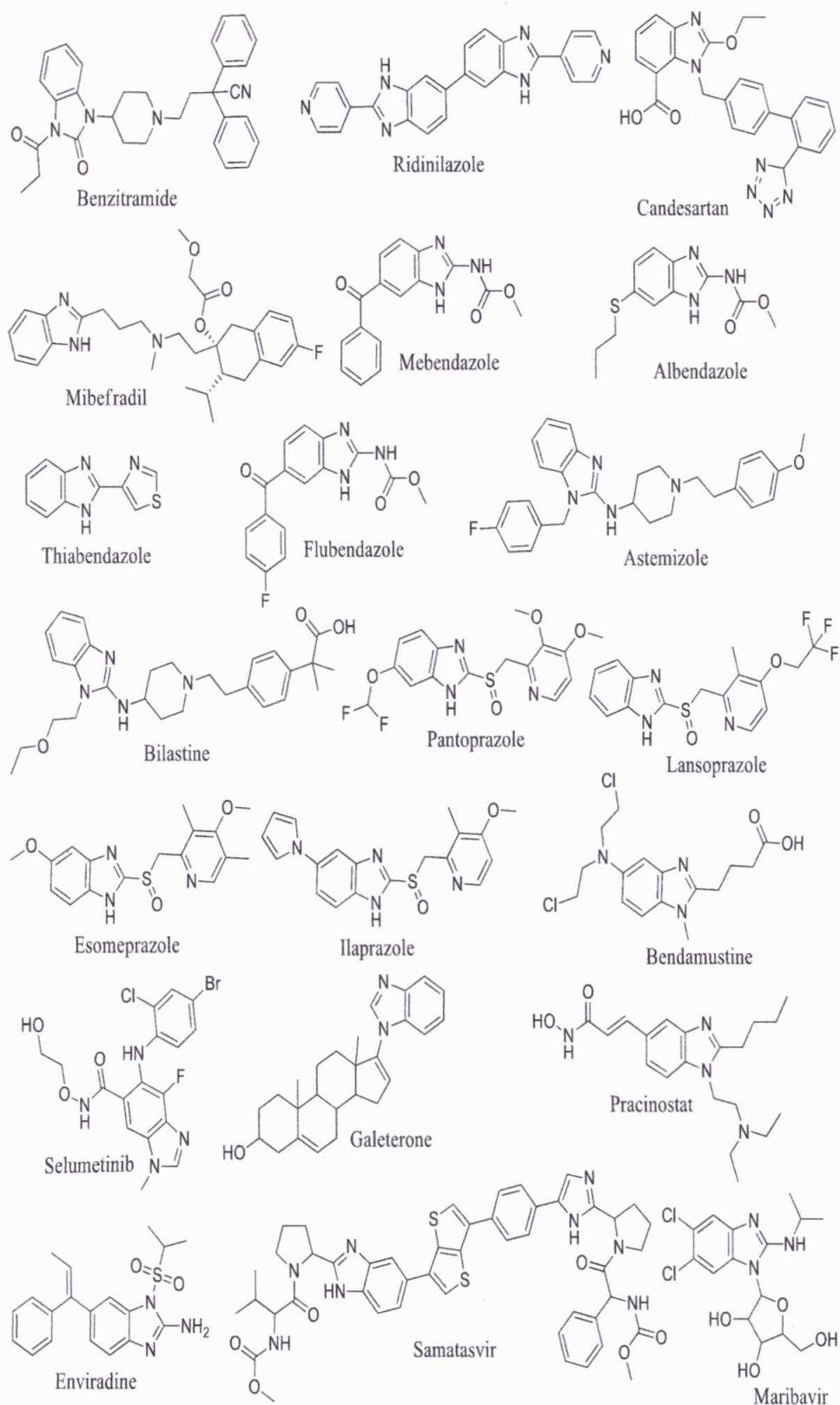


Figure 2.
Structures of marketing drugs containing benzimidazole moiety [13–17].

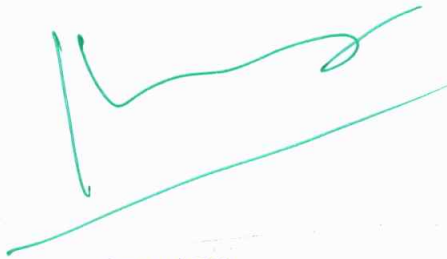


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Conflict of interest

The authors declare no conflict of interest.




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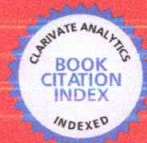
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72nd INDIAN PHARMACEUTICAL CONGRESS



NAGPUR
NITIKA

Theme:
"Access to Quality & Affordable Medical Products"

72nd Indian Pharmaceutical Congress, Nagpur

January 20-22, 2023



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It is our pleasure to certify that

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V.G.S.

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President, IPCA

Atul Mandlekar

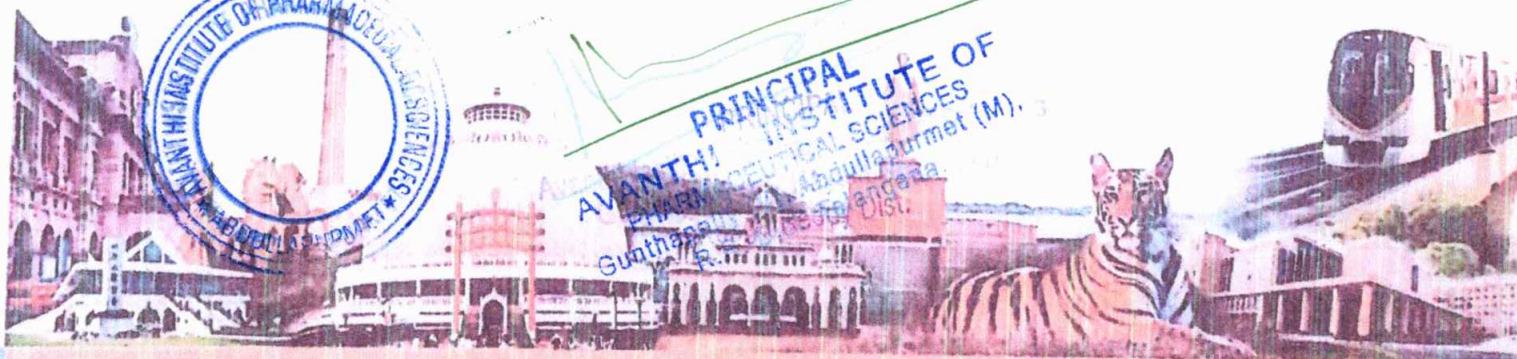
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Prakash Itankar

Prof. Prakash Itankar
Organising Secretary, LOC



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is to certify that P. v. Pavan Kumar Participated & Presented
/Poster entitled Formulation and characterization of phospholipids of mangifera
ie secured 2nd position. Position during
the day International Conference on "New Horizons in Pharmaceutical, Biomedical and Bio-Sciences
on 06th May 2023 at Faculty of Pharmaceutical Sciences, Motherhood University, Roorkee, Uttarakhand

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Roorkee, Uttarakhand

Prof. (Dr.) M. Kannadasan
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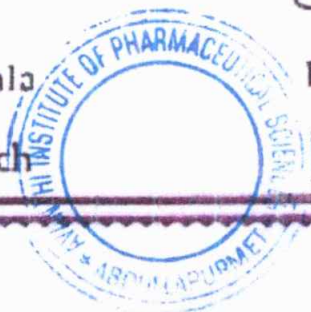
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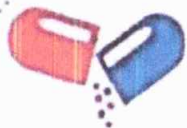
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Partner - Modern Laboratories
Director - Nandani Medical Laboratories Pvt Ltd
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Indore, Madhya Pradesh

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Associate Director - Regulatory Affairs
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